FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

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LONDON, SATURDAY, MARCH 14, 1874.

SUPPLEMENT. | PRICE FIVEPENCE. | PER ANNUM, BY POST, £1 40.

R. JAMES CROFTS, STOCK AND SHARE BROKER, No. 1, FINCH LANE, CORNHILL, LONDON, E.C. (ESTABLISHED 1842).
USINESS transacted in every description of BRITISH and FOREIGN Stocks and res, and in all COLLIERY and I ISON Shares.
ECIAL BUSINESS in shares not having a general market value.
ans negociated upon marketable Mining Shares and other approved Stocks. principal mining papers filed every week. A Price List issued every evening free o'clock.

Pive o'clock.

GLAISDALE WHINSTONE QUARRY.—Applications for these shares received, and y information given. The property is one of undoubted value, and can be remmended as a thoroughly bona fide and legitimate investment.

BUSINESS in Cardiff and Swansea, Clee Hill, Chapel House, United Bituminous, felsh Freehold, and West Mostyn Colliery Shares.

Wanted to buy, a few shares in Littledean Woodside Colliery.

MR. W. H. BUMPUS, STOCK AND SHARE DEALER,

R. W. H. BUMPUS. S10-ON
owing SHARES, free of commission:—
Assheton, £2 18s, 9d.
Bog, 14s, 6d.
Birdseye Creek, £3/4.
Bampfylde.
Cape Copper, £28/4.
Cape Copper, £28/4.
Colorado, £3/4.
Cloe Hill Colliery, 15s.
Dolcoath.
Don Pedro, 12s, 3d.
Don Pedro, 12s, 3d.
Don Pedro, 12s, 3d.
Don Retto, £2/4.
Emma (Silver), £2/4.
East Lovell, £10/6.
Emma (Silver), £2/4.
East Lovell, £10/8.
East Lov 0 Drake Walls.
0 Emma (Silver), £2½.
5 East Lovell, £10½.
5 East Lovell, £410.
6 Eberhardt, £4 1s. 3d.
9 East Van, 28s. 9d.
9 East Caradon, 15s.
Flagstaff, £2½.

100 Rookhope, 22s. 150 Rica (Gold), 10s. 3d. 15 Roman Grav., £15¾. 75 South Aurora, 15s. 3d. 2 South Caradon. reat Laxey, £11%.

3 Tincroft.
20 Tankerville, £85/4.
20 Tyllwyd, 22s,
80 Tecoma, 18s, 9d,
40 Utah, 36s, 3d.
10 Van, £30,
25 Van Consols, £43/4.
50 W. Tankerville, 36s 3d
10 Wheal Grenville, £31/4
40 W. Mary Hutch, £21/4
100 West Maria, 4s, 9d,
25 Wheal Crebor, £25/6.
50 West Esgair Lle,
50 United Bituminous,
24s, 6d, London Office of Reference for Drake Walls and South Roskear Mines.
W. H. B. transacts business in every description of stocks and shares at the
st market prices, and free of commission.
Bankers: National Provincial Bank of England, E.C.

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FOR SALE, -25 West Goginan, fully paid, at 15s.

R. JOHN RISLEY (SWORN), STOCK AND SHARE BROKER, 77, CORNHILL, LONDON, E.C., pecially recommends the purchase of shares in WHEAL CREBOR, TRELEIGH OOD, OLD TREBURGETT (Preference Shares), and WHEAL GRENVILLE INES.
The latest reports of the above mines forwarded on application.
Brokerage on Buying or Selling shares of £4 and upwards, 1½ per cent., and, per share on each under £4.

TERDINAND R., KIRK, STOCK BROKER,
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GLAISDALE WHINSTONE QUARRY will be a lasting and high-class dividend-paying operty, equal to our best collieries. Non-speculative, with a certainty of 25 per int. Read the reports, and make immediate application for shares.
Welsh Freeholds strongly recommended. This is one of the largest and most luable mineral estates in South Wales.
United Bituminous, though higher, should still be secured.
SPECIAL BUSINESS in Cardiff and Swansea, Littledean, New Sharlston, Clee Ill, Newport Abercarn, Dunraven Adare, West Mostyn, Chapel House, and felsh Freehold.
All Colliery and Iron Shares dealt in, whether quoted or not. Advances made on lost.
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CROSBY HOUSE, 95, BISHOPSGATE STREET WITHIN, E.C.,
DEALS in ALL KINDS of STOCKS and SHARES, for each or the account.

MR. HENRY MANSELL, STOCK AND SHARE DEALER, 14, GREAT WINCHESTER STREET, LONDON, E.C. H. M. recommends the purchase of Colorado Terrible shares.

MR. THOMAS SPARGO, MINING ENGINEER, SHARE DEALER, 224 and 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C.

R. THOMAS THOMPSON, JUN., 1, PALMERSTON BUILDINGS, BISHOPSOATE STREET, LONDON, E.C. e valuable hints as to the purchase of mining shares will be found in Mr, son's "Investment Circular" for March now ready, post free, price 64.

R. W. TREGELLAS, 122, BISHOPSGATE STREET WITHIN, E.C.,
Deals in all descriptions of Stocks and Shares at close market prices.

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We advise immediate application and purchase of the Bampfylde and Llanst shares. A rise in price is inevitable.

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30 Rookhope, 19s. 9d.

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0 Old Treburgett (original); 10 Minera; 3 South Caradon; 55 Clee Hill; 10 East set; 30 West Gwennap; 55 Englefield Colliery (fully paid); 100 Prince of Idea; 20 Little Dean and Woodside: 30 Van; 40 Penstruthal; 50 Welsh Freeda; 3 Doleoath; 100 United Bituminous; 100 West Caradon; 20 Tilford Colyy (fully paid); 200 Allty-Crib; 5 Tankerville; 50 West Esgair Lie; 40 Lady-1, 30 Great Retallack; 50 Pennerley; 20 Wheal Peveor; 3 Cara Brea; 40 Wheal, ates; 100 Creaver and Wheal Abraham (30s. paid); 5 Great Laxey; 20 Penhalls 1 Emptylei; 40 Bine Hills; 20 Wheal Uny; 20 Cape Copper; 20 Marke Valley; a West Maria and Fortescue; 70 Gawton; 200 Gold Run; 50 Last Chance; 60 Seytaff; 150 Exchequer; 100 Mammoth Copperpopolis; 40 Cedar Creek; 50 Newnucliand; 300 Frontino and Bolivia; 100 New Pacific; 50 Birdseye Creek; 50 westeland Creek; 100 Emma; 150 Yudanamntana; 30 New Quebrada; 200 coth Aurora.

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Bankers: London and County Bank.

AUDSLAY AND CO., STOCK AND SHARE BROKERS, 3, CRAVEN-STREET, STRAND, LONDON, AND ST. AUSTELL, CORNWALL, transact business in all Stocks, Shaws, and Miscellaneous Securities, at close market prices.

MAUDSLAY and Co., baving a branch establishment in the heart of Cornwall, can furnish the earliest information of discoveries in mines, enabling their clients to anticipate the rise in price of shares.

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Orders received and commissions executed.

Bankers: National Provincial Bank of England.

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200 Alt-y-Crib, 7s.
20 New Dolcoath.
20 Lovell (Tin), 22 7s. 6d. 10 Grenville, 23 5s.
25 Excelsior.
26 Gt. Wheal Vor, 15s.
27 Gt. Wheal Vor, 15s.
28 Uni. Bituminous, £1 5 50 So. Rom. Gruv., 15s.
26 West Godolphin, £2½
27 West Chiverton, £5.
28 Uni. Bituminous, £1 5 50 So. Rom. Gruv., 15s.
26 West Godolphin, £2½

MR. E. CHARTERS, 8, CRAIG'S COURT, CHARING CROSS,
50 Almada, 128. 6d. 10 Great Laxey, 211.
10 Bellavista, £9. 60 Great Laxey, 211.
20 Grogwinion, £93/6.
50 Boscassvell, 9s. 9d. 60 Great Charter, 25/6 Boscassvell, 9s. 9d. 20 Hingston Down, £13/6.
50 Chicago, offer wanted. 10 Cape Copper, £27. 20 Last Chance, £1. 10 Lovell, £23/6. 20 Last Chance, £1. 10 Lovell, £24/6. 20 Grown Elan, \$2. 20 Gr

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Government Securities, Rails, Foreign Bonds, Bank, and Mine Shares negociated on closest terms. Special Business in Colliery Shares of any company. Intending purchasers may through Mr. Hume ascertain the negociable value of recommended securities before acting.

BUSINESS IN—
Flagstaff.

Richmond.
Last Chanec.
New Quebrada.
Tecoma.

IN—
Richmond.
New Quebrada.
West Maria.
Wheal Maria.
Wheal Mary Ann.
Dividend investments paying 10 to 20 per cent.
The Monthly Dividend-List sent to applicants.

CHAPEL HOUSE COLLIERY.—A few shares to be disposed of at par.

GLAISDALE WHINSTONE QUARRY COMPANY.—Applications received for shares

C H A R L E S T H O
MINING AGENT
3, GREAT ST. HEIEN'S, LONDON, E.C. M R. THOMAS,

MESSES. A. W. THOMAS AND CO.,
10, COLEMAN STREET, E.C.,
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Parties wishing to purchase or sell in the foregoing are requested to make early application. PENNINGTON AND CO., SWORN BROKERS.

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MESSRS. PENNINGTON AND CO'S "MONTHLY RECORD OF INVESTMENTS," published on the first Thursday in each Imonth, contains an exhaustive Review of the British and Foreign Stock and Share and Money Markets, &c., with an enumeration of safe investments, paying from 10 to 20 per cent. Price 6d, per copy, or 5s, annually.

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Consols, Foreign Stocks, Railways, Mining Shares, and every Security quoted in
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Speculative accounts opened for the forthightly settlement.
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AGENTS for the PURCHASE and SALE of
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SPATHOSE IRON MINE; lode odened on.

MR. J. HODGE, having had thirty-five years' PRACTICAL MINING, offers his ADVICE to CAPITALISTS, INTENDING PURCHASERS, or SELLERS.

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MR. T. COLLIVER, MINING AND QUARRY ENGINEER,
BEDDGELERT. NORTH WALES.
Mr. COLLIVER has resided in the Principality 22 years, and is well acquainted
with the Mines and Slate Quarries of the district. Mines and Quarries carefully
surveyed, and reliable reports given.
FOR SALE, the GRANT of a SLATE QUARRY on the CAMBRIAN SLATE
ANGE. The best now available.

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A MINING ENGINEER, with first class testimonials and references,
will presently be OPEN to INSPECT and REPORT on MINES, home or abroad;
or would undertake the MANAGEMENT of a METALLIFEROUS MINE. Can say ores. For address, apply to "X. Y. Z.," MINING JOURNAL Office, 26, Fleet-street, E.C.

ANTED, by an able and active Man, a SITUATION as UNDERGROUND AGENT or MANAGER of LEAD MINE, either at home or abroad. Good dresser. Salary moderate.

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WANTED, a TRAVELLER in the COAL TRADE, by a large Colliery Company in SOUTH YORKSHIRE. He must be well known to large consumers, and possess a good connection.

Application to be made, by letter, to Jans Smith, Esq., 27, Bennett's Hill, and all particulars given of previous experience and salary expected.

WANTED, by the BOWLING IRON COMPANY (Limited), a THOROUGHLY COMPETENT MECHANICAL ENGINEER.

Apply to WILLIAM EVANS, Managing Director, Bowling Ironworks, Bradford, Yorkshire.

WANTED, for the NORTH SKELTON IRONSTONE MINES, a RESIDENT CERTIFICATED MANAGER. Application (stating qualifications, and salary required) to be addressed to the Secretary, Messrs. Bolckow, Vaughan, and Co. (Limited), Middlesborough-on-Tess.

WANTED, a Gentleman, to TAKE the MANAGEMENT of PHOSPHATE MINES in the SOUTH OF FRANCE. He will be required to superintend the working of the mines; the carriage of the material to a scapori town; to make occasional analyses; and to take charge of the accounts. Apply, stating qualifications and salary required to Mesers. Spence and IRWIN, tockbrokers, Newcastle-on-Tyne.

WANTED, A FEW GENTLEMEN to JOIN in TAKING UP FOUR IRON MINES in CORNWALL—RED HEMATITE, MAGNETIC, and BROWN HEMATITE, now in working order, with a view of either working the same or forming a company. The royalty rents very low. Price for the four mines, £29,000. One of the mines adjoins the Cornwall Minerals Railway, and 3000 tons, per month could at once be raised from this mine alone. Some of nd seed tons per mount count at once or rused from this infec-he ore is selling at 20s. per ton at Newport. Apply to Mr. James Baunders, Metal Broker, Wolverhampton.

O N SALE, a QUANTITY of SUPERIOR CARBONATE of BARYTES, at 80s. per ton. Also, SULPHATE, at 30s. per ton. Delivered at St. Asaph Station, London and North-Western Railway.

Address, WM. PARRY, wine merchant, Holywell.

OR SALE, an IRON MINE.—LODE OPENED ON, and a CONSIDERABLE QUANTITY of ORE at SURFACE for INSPECTION. Carriage to shipping port per rail inexpensive, Address, Edward Pearce, Biscovey, Par Station, Cornwall.

750 BLAKE'S PATENT ORE-CRUSHER NOW IN USE.

ogues, apply to—
Mr. H. R. MARSDEN, SOHO FOUNDRY, LEEDS,
Only maker in the United Kingdom.

R. JOHN CARTER, MINE SHARE DEALER, Shares at close market prices of the day.

Mine shares are close market prices of the day.

Mine shares are now selling very low. A judicious selection will probably amply repay the outlay within a few months.

SUBSCRIPTION FOR £35,000, IN SIX PER CENT. PREFERENCE SHARES OF £100 EACH,

Part of £375,000, which constitutes the entire Preference Capital of the CORNWALL MINERALS RAILWAY COMPANY.

Incorporated by Special Act of Parliament, 36 and 37 Vic.

Estimated net earnings available for the interest on the Preference Capital

£67,875 per annum, being upwards of three times the

amount required,—viz., £22,500,

Or, at the option of subscribers, the whole amount can be paid up on allotment under discount at six per cent. per annum on such pre-payment.

Subscribers will be entitled to the interest accruing from 1st January last, which will be allowed as above.

Reckoning such allowance, and the discount on pre-payment of the instalments, the net price is reduced to about £97 15s, per share.

The shares will be transferred into the name of each subscriber free of stamp duty.

duty. The following is a list of the directors and officers of the company.

DIRECTORS.

A. C. SHERRIFF, Esq., M.P.—CHAIRMAN. The Right Honourable the Earl of DUNRAVEN.

CHARLES GILPIN, Esq., M.P., Director of the South-Eastern Railway Company.

SAMPSON LLOYD, Esq., Patent Shaft and Axletree Company, Wednesbury.

J. S. LOUTH, Esq., Director of the Cornish Consolidated Iron Mines Corporation.

C. H. ROBARTS, Esq., 2, Hare-court, Inner Temple, London. CHARLES E. TREFFRY, Esq., Fowey, Cornwall.

GEORGE WILSON, Esq., Director of the Monkland Iron and Coal ENGINEER-W. H. THOMAS, Esq. Company.

Messrs. COPE, ROSE, and PEARSON, 26, Great George street, Westminster. Messrs. PRICE, HOLYLAND, and WATERHOUSE, 13, Gresham-street, E.C., Loudon.

MESSRS. G. S. HERBERT AND SON are authorised to dispose

TESSRS. G. S. HERBERT AND SON are authorised to dispose of by public subscription 350 six per cent. preference shares of £100 cach, being part of 3750 preference shares constituting the entire preference capital of the Cornwall Minerals Railway Company.

Subscribers will be entitled to the interest accruing from 1st January last, which will be allowed as above.

The price of subscription is par, or £100 per £100 share, or, reckoning accrued interest and discount for pre-payment of instalments, the net price is reduced to about £97 l5s. per share, payable at the dates above mentioned.

The system of railways of this company is of a very important character to West Cornwall, affording most valuable business facilities to the extensive series of mining properties in the district; as by it they are placed in direct railway communication with the port of Newquay on the north, and the ports of Par and Fowey on the south, from which places extensive shipments of ore, both coastwise and the foreign trade, are made.

In addition to this, by the medium of the Cornwall Minerals Railway the whole of the mining district is brought into direct railway communication, rin the Cornwall Railway, with Ethemoth and Penzance on the south, as well as with Plymouth, and rin the South Devon Railway and the Bristol and Exeter Railway, with Exeter and Bristol, thereby giving access to the whole of England.

The entire railway system of the Cornwall Minerals Company extends to about 25 miles.

The company also possesses special privileges in respect to the shipments from

The entire railway system of the Cornwall Minerals Company extends to about 25 miles.

The company also possesses special privileges in respect to the shipments from Fowey Harbour, which is accessible to vessels of 1000 tons burthen at all times of the tide, and which will be improved, and, by the addition of extensive wharves, sidings, and other works adapted to the shipment of at least 2500 tons of material per day estimated to pass over the railway. The company, in addition, leases Rewquay Harbour and Par Harbour, thus concentrating in itself all the necessary arrangements for the movement of occa either by water or by railway.

The gross amount of caraings, including that from the harbours, is estimated at 2169,250 per annum, and, after deducting working expenses and rents, the net earnings of the moleraking are estimated at ESL8,250 per annum.

The preference shares of the company form a first charge upon the whole of the neterarings (after deducting the interest on the debentures and rentcharge, amounting to £13,750 per annum, which would leave the sum of £67,875 available to meet the dividend on the preference capital.

The annual sum required to pay the dividend on the total preference shares is only £22,500 per annum, to meet which it will be seen the estimated amount available is unwards of three times the amount required for the payment of such preference dividend.

The character of the security may, therefore, be considered as unexceptionable.

only 422,500 per annum, to meet which it will be seen the estimated amount available is upwards of three times the amount required for the payment of such preference dividend.

The character of the security may, therefore, be considered as unexceptionable. The Cornwall Minerals R diway is incorporated by a special Act of Parliament, 35 and 37 Vie., which consolidated the undertaking of the Cornwall Minerals Railway and Harbour Company (Limited).

The capital of the company is £750,000, divided into 3750 8 per cent preference shares of £100 each (of which the 350 shares now offered form part) and 3750 ordinary shares of £100 each, with £250,000 debentures.

The contract for the construction of the works provides for the completion of the entire undertaking by the 1st of July next, and due provision for payment of interest at the rate of 6 per c.at per annum on the preference shares during construction is therein previded.

The works have been actively precessed with over the whole system, and, it is stated, are now in such an advanced state as to admit of the railways being opened for public traffic some months earlier than the period stipulated in the contract, the last report of the directors intimating that it is confidently expected that all the lines will be open for mineral traffic during next month.

The statement of the chairman of the company at a meeting of shareholders as to the prospects of the undertaking are exceedingly encouraging, as will be seen by the following extract from his speech:—

"The directors firmly believed they had got possession of a district which had an immense amount of traffic for any railway which met its requirements. Not only did the district possess great mineral wealth—this railway having, in fact, been formed for the development of those resources—but it also traversal some of the finest seeniety in that district, and he had no doubt that the passenger traffic of their line would hereafter form a very important feature in the carnings of the railway. (Cheers.) The directo

(Hear, hear.)"
I following table will illustrate the current market price of railway preference

Name of the Company.	Rate of Preference Dividend per cent.	Stock Ex- change price per £100 Stock.	Equal to for a Six per Cert. Stock.	Equal to a Pre- mium per £100 Stock of
Bristol and Exeter	4	£ 94	£141	-41
Cornwall (Guaranteed Stock)	416	103	13712	3714
Great Northern	5	115	138	38
Great Western	5 5	115	138	38
South Devon	5	106	127	27
North Staffordshire	5	110	132	32
Great Eastern	63	128	128	28
Lancashire and Yorkshire	6	135	135	35
Manchester, Sheffield, & Lincolnshire	6	128	128	28
Midland	6	135	135	35
North-Eastern (Stockton & Darlington)	6	1:14	134	34

It will be seen from the above table that a very large margin exists for an increase in the value of the 0 per cent, preference shares now offered, beyond the orice of subscription, so soon as the line is completed; and to trustees and others ceking a thoroughly reliable home investment, free from the risks inseparable rom foreign securities of every class, the present affords a most desirable propriating.

Subscription for £35,000 in Six per Cent. Preference Shares of £100 each, part of £375,000 which constitutes the entire preference capital of the

CORNWALL MINERALS RAILWAY COMPANY.

Price of subscription -par - \$100 per \$100 share Subscribers will be entitled to the interest from 1st January last, thereby (with allowances for pre-payment) reducing the net price to about £97 15s, per share.

FORM OF APPLICATION, (To be retained by the bankers.)

FORM OF APPLICATION.

(To be retained by the bankers.)

To Messis. G. S. Herbert and Son, 73, Old Broad street, E.C., London.

Gentlemen, Having paid to your credit at Messis. Williams, Deacon, and Co., bankers, 29, Birchin-lane, E.C., London, the sum of £, being £19 per share, on my application for Six per Cent. Preference Shares of £100 each of the Cornwall Minerals Railway Company, I request you to transfer to me that or any less number of the said shares, and I hereby agree to accept such transfer, and to GOLD FIELDS OF NOVA SCOTIA. By A. Heatherington. 2s. 6d.

...1874. (Addition to be signed by applicant desiring to pay up all the instalments on allotment.)

I desire to pay up my subscriptions in full, on allotment, thereby entitling me to discount on pre-payment of the instalments at the rate of 6 per cent. per annum.

Signature.

THE COAL MINES REGULATION ACT, 1872.

EXAMINATIONS FOR MANAGERS' CERTIFICATES OF COMPETENCY.

NOTICE IS HEREBY GIVEN, that the undermentioned persons have been appointed to act as SECRETARIES to the several Boards of Examination, for the purpose of the grant of Managers' Certificates of Competency under the above Act.

Examination, for the purpose of the general state index the above Act.

In the Examinations regard is had to such knowledge as is necessary for the practical working of mines in the different districts of the United Kingdom.

Applicants desirous of being examined should, therefore, apply for all necessary information to the Secretary of that District in which they desire to serve as

nanagers. Home Office, 26th February, 1874. Name and Address of the Secretary to the Board of Examiners. Mining District and Name of the
Government Inspector.

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STEAM-BOILERS AT MINES AND IRONWORKS.

STEAM-BOILERS AT MINES AND IRONWORKS.

The recent terrible boiler explosion at Blackburn is a very sorrowful warning. Notwithstanding the great amount of information which boiler inspection and boiler assurance companies have disseminated amongst the owners and users of steam-power, and notwithstanding also the great additional instruction as compared with former times which the men in charge of that power, now get from those who are able to teach them scientifically, still, much has yet to be learnt and practiced before the country will become able to deal with this splendid motive-power with that freedom from peril which should be possible. Happily, much has been accomplished and not the least amongst the keepers of the steam-boilers at mines and ironworks.

and not the least amongstand Response of the steam-confers at fifthes and ironworks.

The number of steam casualties in 1873 was 88, whereby 66 people were killed and 94 were injured. Of these the largest number of accidents were at collieries and ironworks, as was to have been expected from the large number of boilers employed at those places. The precise number of casualties at mines and collieries was 24, killing 14 and injuring 7. At ironworks the accidents were a total of 17, the deaths 17 also, and the injured 30. The causes of explosion have been much the same as in past years, rather more perhaps from faults of construction or repair, and also from faults which could be prevented by due care on the part of attendants; but the average number has been from either internal or external corrosion, which could have been detected by proper inspection. The class of boilers which has exploded most often has been the Cornish two-tubed, which is perhaps the boiler most in use. Several of the

which could have been detected by proper inspection. The class of boilers which has exploded most often has been the Cornish two-tubed, which is perhaps the boiler most in use. Several of the explosions showed that too much confidence had been placed in the construction and make of the boiler, without that inspection from which alone it can be ascertained that the condition continues as good as at first. The experience of the past year confirms the opinion that no form of boiler is free from the danger of explosion if it is not well looked after; and that the best means of preventing explosion is to insist upon inspection and careful attendants.

To all this the nearest way is to place boilers under official and independent inspection. It is owing to the extent to which this has been done by colliery and ironworks proprietors that, reading the aphorism reversely, "the former times are not as these," that we have now so few explosions compared with those of some years ago. That there should be no abatement in the manifestation of this prudence among the interests specified is gratifying. In the last half of 1873 a large proportion of 85 boilers put for the first time under the care of the Midland Steam-Boiler and Inspection Company, for instance, were colliery and ironworks boilers. Of the 3555 boilers under that company 1256 are used at collieries or mines, and 1581 are at ironworks. There are no boilers now in use which give us more concern that the company the interest and incompany the proper boilers in the star of the iron works. company 1266 are used at collieries or mines, and 1581 are at iron-works. There are no boilers now in use which give us more concern than the very long furnace boilers, in favour by some of the iron-masters for utilising the gas from the blast-furnaces; and it augurs well for the future that men skilled in the science of boiler working and boiler making should be giving that class of boilers their atten-tion, with the view of lessening the risk at present consequent upon their way are supported by the state of the st tion, with the view of lessening the risk at present consequent upon their use. The suggestions made some time since to divide these boilers into lengths have led to various modifications of separate boilers connected with narrow necks or rigid pipes. These, however, have given only partial satisfaction. Other boilers of different construction are preferred by many, but as some ironmasters consider the gases are more effective in one long flue, without bends, Mr. E. B. Marten, the chief engineer to the company we have named, is doing the right thing in bringing as much as possible before the public his recommendation, which embraces the entire separation of the long plain cylinder boilers into distinct compartments, in the same seating, with pipe connections suitably arranged for prethe same seating, with pipe connections suitably arranged for preventing rigidity.

ECONOMY IN RAISING WATER-THE McFARLAND

ECONOMY IN RAISING WATER—THE McFARLAND
ROTARY PUMP.

That the rotary pump is in principle the nearest approach to perfection that need be desired has been many years acknowledged, but owing to the difficulty encountered in the practical application of the principle the McFarland is certainly the first rotary pump that has come into general favour; it will, therefore, be interesting to enquire what are the peculiar features of the McFarland pump, which have secured its claims to popularity. The great merit of the rotary principle is due to the entire absence of a back-stroke, without the simultaneous loss of the enormous advantage of a well-packed piston. That the absence of the back-stroke is of paramount importance is evidenced by the excellent duty obtained even by the centrifugal pump, in which the equivalent of a piston cannot be permitted to approach the cylinder; and many of the most ardent admirers of the centrifugal principle have willingly asserted that it only required the surmounting of one or two comparatively small practical obstacles to render the rotary pump superior to all others. Minor improvements have from time to time been made in attempting to produce a good rotary pump, but it remained for Mr. McFarland to design the much wished for machine, in which the theoretical perfection of the principle is fully secured in practice.

It may be mentioned for the information of those not intimately acquainted with the construction of the various forms of pumps that the rotary pump differs from the ordinary lifting pump in having a piston which fits longitudinally instead of transversely; and as this was supposed, until Mr. McFarland popored the contrary, necessarily to involve the use of eccentrics, springs, slots, and various other contrivances very liable to derangement even under the best conditions, the annoying character of the difficulties with which inventors had to contend will reaily be appreciated—improved eccentrics, new forms of springs, curiously devised slots, and anti-friction oliers, r

them centrally within the cylinder. The driving shaft passes through the lower part of the hub, and carries a disc of considerably smaller diameter than that of the cylinder, such disc having two elongated oval pieces removed in the same diameter, but on opposite sides, so that in revolving it can carry round the feathers. By this arrangement the necessity of applying pressure to keep the feathers properly packed to the cylinder is removed, and as there is nothing to injure the feathers when once placed in the cylinder, they will run for a considerable time without any attention whatever. There are several important improvements in details which add much to the efficiency of the pump; not the least important being the duplication of the parts by dividing the cylinder transversely, and running two feathers in each compartment, so that there are always two feathers working simultaneously, and a feather in one compartment 90° behind the working feather in the other compartment. By the 90° behind the working feather in the other compartment. By the position of the discs with regard to the feathers the latter are well covered and protected during the portion of the revolution in which they are not doing useful work, and thus the wear and tear is reduced to the minimum. Another improvement in detail worthy of notice is the construction of the outlet part of the cylinder; it is so formed that in the event of any extrapoles matter possing through formed that in the event of any extraneous matter passing through the pump (and it has been proved that foreign matter does not in-jure the pump, inasmuch as coals up to 2-in, cubes have passed through one of the pumps with a 4-in, suction pipe whilst it was running at 100 revolutions per minute) it has no tendency to return, but is at once received in the outlet pipe, and carried forward by the stream. Other improvements in details might be mentioned, but these will suffact a show that the utwest extration has been interested.

but is at once received in the outlet pipe, and carried forward by the stream. Other improvements in details might be mentioned, but these will suffice to show that the utmost attention has been paid to every portion of the pump.

On March 6 an opportunity was afforded the general public to see it in operation, a double-action 4-in, rotary pump being then exhibited at the West India Docks, giving great satisfaction to engineers and others present. A few weeks since similar experiments were made at Dundee with equal success. The same principle, with slight modification, is applicable as a steam-engine, and from the admirable manner in which the engine worked the pumps on Tuesday it will be surprising if the pump and engine be not in most cases employed in combination, the favourable effect of which upon the profits of the company cannot be doubted. As the readiest means of demonstrating the power of the pump, it was tested as it would be applied for the extinguishing of fires—a hose, with first a 1½-in. nozzle, and then a 1½-in, being attached to the pumps, with ±in, suction-pipes. With 20 revolutions per minute a full volume of water was thrown through the larger nozzle a distance of 120 ft, with a trajectory of 50 ft, and a full bore delivery was obtained, when the gearing was disconnected, and some of the gentlemen present worked the pump by hand. In the next experiment, with 106 revolutions per minute, the quantity of water thrown was 80 tons in the hour, the 1½-in, nozzle carrying 140 ft,, and the 1¾-in, 130 ft., the trajectory in both cases being 70 ft. As a complete pump upon the McFarland principle will be supplied by the company for 40l, there are innumerable purposes for which such a machine would prove invaluable, and it cannot be doubted that, amongst other things, for facilitating economy poses for which such a machine would prove invaluable, and it cannot be doubted that, amongst other things, for facilitating economy in surface operations at mines the combined pump and engine would not only be a boon to miners, but would often aid them to maintain a good position in the Dividend List. The progress of the invention will be watched with much interest.

ECONOMIC MANUFACTURE OF COKE.

ECONOMIC MANUFACTURE OF COKE.

During the past three years considerable progress has been made in devising improvements in the manufacture of coke, and in the methods of utilising the gases given off during the process of coking; amongst the most recent inventions introduced to the coke manufacturers of this country is that of Mr. E. Coppée, recently adopted at the works of the Ebbw Vale Iron and Coal Co., Ebbw Vale, Monmouth, where they will be in full operation in two or three weeks. The object of Mr. Coppée's invention is thoroughly to utilise the heat given off by the coal whilst being coked by employing the heated gases upon an improved principle. He claims that by the use of this system he retains in the oven the largest possible proportion of the carbon contained in the coal, and utilises the heat of the gases to the utmost by applying such heat both to the sides of the ovens and to the production of steam. The ovens, which are from free from complications of any kind, are rectangular, their usual size being about 30 ft. long, from 1½ ft. to 2 ft. wide, and about 4 ft. high.

The great economy of the Coppée system is no doubt mainly due to the rapid combustion, in the surrounding flue of the ovens, of the volatile gases evolved from the coal, creating a very high temperature, which is uniformly maintained. Something is also due to the methods of charging and discharging the ovens, by which the loss of heat is reduced to the minimum. The ovens are charged with coal once every 24 hours, and the coals are crushed before being placed in the oven to a coarse dust. The ovens are filled with coal from the top, by means of three holes, over which three wagons containing the exact quantity of coal to be used are placed before the coke is removed from the oven. At each end of the oven are two doors, the lower being 3ft, and the upper door 1 ft. in height. Between each two ovens are a number of vertical channels, which lead from the top of the oven, and convey the gases to the horizontal flues, one of which runs un

the oven, the apertures through which the coal passes being immediately covered up by sliding doors. The coal is levelled in the ovens by means of rakes passed through the opening of the upper doors; the upper doors are then closed. The time occupied from the moment the doors are opened to their being sealed up again is eight minutes.

At the commencement of the burning the admission of air to the oven is regulated by three small channels, by means of which air can be conveyed either into the top of the oven or into the vertical flues. One of these air passages is in the centre of the oven, and the others are at each end of the oven, at the side of the doorway, a very others are at each end of the oven, at the side of the doorway, a very simple arrangement of sliding doors allowing the air to be applied or shut off with great facility and promptness. It has been shown by experiment that these ovens yield only 2 per cent. short of the actual quantity of fixed carbon contained in the coal used. For reasons previously given no rule can be laid down in this respect, at least as regards English coal. A percentage, varying from 70 to 83 per cent in Belgium, and from 67 to 75 per cent. in England, probably represents the actual results these ovens will give. As the gases evolved from the coal are all entirely consumed, any nuisance to the surrounding country from coke ovens is entirely avoided.

gases evolved from the coal are all entirely consumed, any nuisance to the surrounding country from coke ovens is entirely avoided.

With regard to the comparative cost of the ordinary and of the Coppée oven, the first cost of the latter is nearly twice as great; but this is much more than compensated by the fact that the Coppée oven produces 2\frac{3}{2}\$ the quantity of coke in a given time. The Coppée has, moreover, the important advantages of occupying but one-fifth the space, and that the Coppée oven can be emptied and re-filled in eight minutes, whilst the ordinary oven requires over sixty minutes. The coke produced by the new system is firm and dense, the proportion of breeze and refuse is materially reduced, and the general cast of the labour charges carcely exceeds two-thirds. Owing to the hand of an ordinary watch or clock, and the hollow hub which carries it—a stronger connection and one in every way less liable to derangement could scarcely be devised. In the McFarland pump the feathers fit freely on the hub, the sole object of which is to retain

and it is stated that a block of ovens in Belgium, which has been twelve years at work, has cost less than 7s. per oven per annum for repairs. The ovens certainly appear to be excellent, and the fact of the coal being used in the form of powder will be among the most important advantages of the system.

THE AMERICAN IRON AND STEEL TRADE.

THE AMERICAN IRON AND STEEL TRADE.

Although incorporated only four years since, the Joliet Iron and Steel Company of Chicago has secured quite a high reputation for the manufacture of Bessemer steel rails and all kinds of pig and merchant iron, a ready sale being found for the entire make of the works, the capacity of which is at the present time 2750 tons of iron rails and 2500 tons of steel rails per month, and it is considered that when the extensions now in progress are completed, which will be the case within three months from the present date, the power of out-turn of steel rails will be increased to an amount of at least 3000 tons per month. The company, which has a special charter conferring limited liability, has a nominal share capital of \$2,500,000, or 160,000%, and a 10 per cent. mortgage bond capital of \$1,000,000, or 160,000%, and a 10 per cent. mortgage bond capital of \$1,000,000, or 160,000%, but hitherto there has only been issued and paid up \$1,000,000, in shares and \$600,000 in mortgage bonds. The constantly increasing business of the company demanding the employment of additional capital, Messrs, Chalwicks, Adamson, Collier, and Co. have been authorised to invite subscriptions for the unissued stock—5400 shares of \$100 at 18/4. See preshare, and 400 bonds of \$1000 at 18/4., and accrued interest—which is to be issued for amounts at subscriber's option, the shares to be paid for on allotment, and the bonds one-half on allotment and the balance in a month. The works, which are built almost entirely of stone, principally with iron roofs, have been described as the best and most complete in America, and bear very favourable comparison with the best known and most perfect works of the kind in Great Britain, extend over about 100 acres of freehold land, and comprise in the whole four blast-furnaces, two Bessener reconverters, eight Siemen's heating furnaces, and every requisite for a large and extended trade, with steam-engines, two all mills, foundery, machinery and boiler shops, and other requis

winding the profits were 17 per cent. The stock is very generally regarded as an eligible investment.

Winding-up of companies by the Court, or under the supervision of the Court of Chancery, was afforded in the case of the Cambrian Railways Company e. Hafod Hotel Company, heard before the Master of the Rolls on March 3, upon a motion made on behalf of the Cambrian Railways Company, "to remove the liquidator of the Hafod Company (Mr. Robertson), or to give the railway company authority to see the asset liquidator in a contemplated process at the against the Mid Wates Hetel Company, on the alleged ground that the railway company cauld not clean payment said liquidator in a contemplated process at the against the Mid Wates Hetel Company, on the alleged ground that the railway company cauld not clean payment and also of freshold land at Aberystwith, on which it was intended to build the Queen's Hotel. The Queen's Hotel was opened before it was quite finished; owing, however, to several collateral facts, arising from the monetary pressure of 1865, and the subsequent stoppage of Mr. Thomas Savin, who was erecting an opposition hotel (now the University College of Wales), the Hafod Company found that it was necessary to discontinue operations at the close of the first season; and hence, to secure an equal distribution of its assets, a petition for voluntary liquidation, under supervision of the Court, was presented on Nov. 18, 1866; the order was made on Dec. 15: and Mr. Robertson appointed liquidator on Feb. 11, 1867. Two days afterwards the liquidator of 67,400°, of which 13,00°, was payable in 10°, shares, with 7. los. paid-up, and 14,000°, by instalments out of profits, the remainder being represented by the new company taking over 40,00°. of mortgage and debenture debts. The sale, or what was virtually the re-constitution of the company, was opposed by a minority, and in November, 1867, an application was made to the late Master of the Rolls, Lord Romilly, to set aside the agreement between the two companies. Th

ROTARY-ENGINES.-Mr. J. GRAFTON JONES, of Gloucester-ter-ROTARY-ENGINES.—AIT, J. CHARTON JONES, OF CHOICESTEP-CET-race, Amherst-road, has patented some improvements in rotary-engines. The en-gine in its simplest form consists of a cylinder with inlet and outlet passages; in its side are axes passing through the cylinder secentrically, and east with the axis is a block also of cylindrical form, and of a size to touch with its periphery on one side of the interior of the cylinder. In the block two radial sliding tongues are fitted; they are pressed outwards by a coil spring lodged in holes drilled in the block directly through the centre and axis of the block.

block directly through the centre and axis of the block.

ZINC ALLOYS.—Mr. JAMES WRIGHT, C.E., of Gresham House,
Old Broad-street, has patented (for M. Guillem, of Marseilles) some improvements
in the method of treating zine alloys for the purpose of recovering zine therefrom.
The invention relates to an improved method of recovering zine which has been
used for desilvering or separating other metals, chiefly lead. To carry this out
he arranges in a furnace one or more dry cracibles or melting pots, into which
the alloy containing zine is placed. A tube passes from each of the crucibles, and
connects it with a closed receiver, the mouth of the crucible and the pipe connections
with the crucible and receiver, as well as the crucible mouth, heing lated or hermetically closed, the furnace is brought into action, and upon a white heat being obtained the zine volatilises, and passes through the pipe into the receiver, where it
is deposited in a metallic state.

Lectures at the Royal School of Mines.

ON METALS.

Dr. PERCY commenced the sixth and last lecture of this cours with a few miscellaneous remarks on Brass. First of all, with regard to bronze powders, which are powders of different metals and metallic alloys, and amongst the alloys are certain kinds of brass, varying much in their percentage of copper. The alloy is rolled into thin sheets, and then ground up by means of sandstone and water, so as to bring the metal into the state of much mixed mercentage. so as to bring the metal into the state of mud, mixed more or less with the material of the grindstone. Nothing is more easy than to separate the sandy matter of the stone from the metallic mud; the specific gravity of the two substances differing greatly. By mixing the mud with water, and stirring it up, and then pouring off the water, much of the sand and but little of the metal will be removed, and by repeating the process several times an almost perfect separation may be effected. In this means we get the metal in the fine state of very fine powder, and it is possible to vary the tint of this powder by heating it under certain conditions so as to cover each particle with a thin film of oxide. The ancient city of Nuremberg for long enjoyed a reputation for these bronze powders.

A few words, next, with regard to "lacquering." It is very well known that brass, which has a bright surface, exposed to the atmoso as to bring the metal into the state of mud, mixed more or les

A few words, next, with regard to "lacquering." It is very well known that brass, which has a bright surface, exposed to the atmosphere speedily becomes covered with a dark coat, hence the necessity for frequently polishing door-knobs, door-plates, &c. There are two ways of dealing with brass—one is to keep it polished; the other is to protect it by a varnish—lacquer. Lacquer is made by dissolving shellae in proof spirit, and sometimes a small amount of "dragon's blood"—the product of a kind of palm—is also added. The brass, after being cleaned, dipped, and warmed, is painted over with the lacquer. Prepared shellae is made for the purpose of getting a nearly colourless and transparent lacquer. With regard to the rolling of brass, here are some specimens of brass, which, although rolled with all proper precautions, are cracked and broken at the edges: it turned out on examination that the copper which had been used in turned out on examination that the copper which had been used in the manufacture contained a sensible quantity of antimony, and antimony is commonly reputed to be one of the most injurious ingredients in brass intended for rolling. It is usual to add to brass required for turning a small quantity of lead, speaking roundly about 2 or 3 ozs. of lead to 10 lbs. of copper. Brass for engraving purposes, which is required to be harder and to break crisp under the "graver," has usually a small quantity of tip added. In some kinds of brass which is required to be harder and to break crisp under the "graver," has usually a small quantity of tin added. In some kinds of brass certain changes occur, notably that employed in chains for supporting gaseliers; the brass becomes brittle, and breaks without any apparent cause. I have been for some time collecting specimens which have thus fractured with a view to examining them on some future occasion, and shall be pleased to receive any which may fall in your way. There is one means of restoring to brass which has thus become brittle its tenacity, and that is by annealing it or heating it or heatin your way. There is one means of restoring to beass which has thus become brittle its tenacity, and that is by annealing it, or heating it to redness. There is one defect which sometimes appears in brass after lacquering; greenish blue spots appear here and there on the surface, throwing up the lacquer, and spoiling it. As far as I have been able to judge, the cause is this; it is not an uncommon thing to find on the surface of brass, or immediately below the surface, numerous minute air bubbles, and I believe the "efflorescence" I have described to be due to the corrosive action of some acid retained in these bubbles which has not been washed out by the water after dipping. And here I may remark what a creat deal there is after dipping. And here I may remark what a great deal there is to be learnt from the study of defective metals, and varieties of metals, and it has long been my impression that it would be of immense importance if we could secure for some national collection all those defective metallic specimens, especially those which have of late been too numerous. I mean the railway specimens. I believe such a museum or collection would be of great practical value. If in pouring out the brass a small fragment of any foreign impurity should get into the molten metal, or rolling out the metal this becomes elongated, and thus we have a weak part in the sheet. In this way it is that sulit shillings and operationally sulit several gas way it is that split shillings, and occasionally split sovereigns, are

We will now turn to another metal—Lead. Lead has been known from the remotest antiquity; it has a bluish-white tint, is one of the sofest of metals; still, soft though it be, it can be hardened somewhat, or at least can be rendered less soft, as by the operation of hammering, if the hammer be not so rapid as to raise the temperature so high as to make it anneal itself. If you take lead, and draw it out into wire, you will find that the so-called hard-drawn wire—that is wire as it comes from the draw-plate—has a much greater strength than if it be heated in boiling water, nearly double the strength. The specific gravity of lead is 11.38; its melting point is variously stated, but the best observations I can find place it at 334°C. Lead, when heated to a certain point becomes very brittle; if a piece he heated specific gravity of lead is I138; its melting point is variously stated, but the best observations I can find place it at 334°C. Lead, when heated to a certain point, becomes very brittle; if a piece be heated for some time to a temperature bordering on, but sensibly below, its melting point, and it be then struck a smart blow, it will break to pieces, and present much the appearance of "grain tin," which is propared in a similar way. It presents a columnar fracture, not unlike pieces of common starch, and, other things being equal, the purer the lead the larger will be the columns in the fracture. Common soft lead emits a dull sound when struck; the duller the sound the purer the metal, other things, as shape, size, &c., being the same. What takes place with regard to the welding of iron at a high temperature takes place in a certain degree in the case of lead at a lower temperature. For example, take a lead bullet, and cut it through with a clean sharp knife, press the cut surfaces together with a screw motion, and they will adhere; that is a true case of welding. If a piece of lead be exposed to dry oxygen gas at the ordinary temperature, no change will take place, but if exposed to moist oxygen or air it becomes rapidly tarnished; the most rapid action occurs with pure lead and pure water. If the lead be impure, as when alloyed with a small quantity of antimony, the action is retarded, and may be almost prevented. If we melt lead with free access of air it oxidises, and if the operation be conducted for some time, continually stirring it about without allowing the temperature to rise high enough to melt the oxide, we get yellow oxide of lead, or massicot. When the yellow oxide is heated to a certain degree, it melts and forms a crystalline product—litharge; and if we heat the oxide for a much longer period it takes up an additional quantity of oxygen, and becomes converted into "red lead." By heating oxide of lead with charcoal or coaly matter, the oxygen is removed, and the lead separates in the metallic s sulphide of lead in such proportions that the sulphur of the one and sulphide of lead in such proportions that the sulphur of the one and the oxygen of the other are in the right proportion to form sulphurous acid, on submitting the mixture to a good red heat we can obtain the lead entirely in the metallic state. So if we take a compound called sulphate of lead, and mix it with sulphide of lead in proper proportions resolving also proper. ons, we obtain a like result. Lead ore always contains silver, and in the course of numerous experiments we have made on lead ores from all parts of the world, we have never met with a single specimen which did not contain both silver and gold, and I believe ores from an parts of the specimen which did not contain both silver and gold, and I believe that every piece of lead in the world has these two metals associated with it. When galena is heated strongly, and the air allowed to play freely upon it, the sulphur in great measure burns off, but in the place of that sulphur oxygen is substituted, and we get oxide of lead. The furnace employed for lead smelting which I shall describe that the Scottish furnace: the bars are prismatic pieces of iron, is called the Scottish furnace; the bars are producted about 20 or 30 in, long. The furnace is built of brickwork, and the interior is composed of various pieces of cast-iron. At the bottom is a cast-iron box, several inches deep, known as the "hearth bottom." In front of the furnace is placed a cast-iron plate in a sloping position, called the "workstone." At the back is a piece with a groove in it, called the "pipestone," on which rests the nozzle of a double bellows. In front of the workstone is a kettle to receive the molten lead which flows out, below which a fire is kept burning, and from lead which flows out, below which a step burning. The furnace is preduced. is called the Scottish furnace; the bars are prismatic pieces of iron, about 20 or 30 in. long. The furnace is built of brickwork, and the bellows. In front of the workstone is a kettle to receive the morten lead which flows out, below which a fire is kept burning, and from which the metal is ladded out into casting moulds. The furnace is built under a chimney, for a good deal of lead smoke is produced, which is very injurious. In this process peat is used as the fuel in conjunction with coal. The fire being made up, the hearth bottom

is filled with lead from a previous working of the furnace; upon this pieces of raw ore are pitched in from time to time, and every now and then a pig of metal is thrown in front of the bellows' nozzle to distribute the air as uniformly as possible through the mass in the furnace. By-and-bye some of the molten lead will run out; fresh furnace. By-and-bye some of the molten lead will run out; fresh pieces of ore are thrown in, and so by the action of heat and atmospheric air we can succeed in obtaining the lead in the metallic state. Lead ore is never pure material, and you cannot get the whole of the lead out by one operation; a slaggy matter rich in lead is left—this is picked out in lumps, and laid aside for a further operation; the greater part of the antimony of the ore remains in this slag. The slag is put into a small blast-furnace of a somewhat different kind; the lead in it is in the state of oxide, and we have only to bring it into contact with red-hot coaly matter, coke, &c., to reduce the lead. In front of the furnace is a cast-iron pot divided into two parts—one small, one large, by a partition which does not reach quite down to the bottom of the pot. The larger compartment is loosely filled with a mass of ashes and cinders. As the products of the operation in this furnace we get a glass-like stuff called slag (which contains but little lead) and metallic lead, the former being much less fusible than the latter. A small channel runs from the furnace into the larger compartment, and as the products run out the slag solidifies larger compartment, and as the products run out the slag solidifies among the ashes and cinders, while the much more fusible lead sinks through and collects in the smaller compartment. Slag lead is much narder than lead obtained in the first operation; it also gives a much learer ring when struck.

I have said that lead ore always contains silver, but the silver in

many cases is not present in sufficient quantity to be extracted with profit. There is an old method of getting out the silver—cupellation, founded on the following principles. If we take lead and heat it strongly with free access of air it oxidises; silver under the same circumstances does not oxidise. Thus, if we heat strongly a mixture of the two metals, the lead will burn off as litharge (meaning silver extens) and if we make provision for removing this oxide, the silver of the two metals, the lead will burn off as litharge (meaning silver stone), and if we make provision for removing this oxide the silver will be left. A shallow oval-shaped vessel is used called a "test," and it is filled with bone-earth mixed with pearlash and water, stamped well to make the whole solid. A shallow cavity is scooped out in the mass, the sides of the cavity inclined towards the centre, and the "test" is placed in a reverberatory furnace, and the blast and heated air play upon it. It is best to have two flues, as to make the flame play over it as uniform as possible. At one side of the furnace is the lead kettle full of molten lead (which contains the silver), and from which supplies of the metal are ladded into the furnace as remired. The blast is supplied by a pair of double bellows at the ired. The blast is supplied by a pair of double bellows at the ck of the furnace. When all this is ready, and the blast on, what kes place? The lead oxidises with great rapidity, the temperature ing kept high enough to melt the mass. The litharge floating at three phase? The lead oxidates with great rapidity, the temperature being kept high enough to melt the mass. The litharge floating at the top flows out down a small channel in front, fresh lead being introduced to supply its place, and so the process goes on hour after hour. At length we cease to add lead, but still keep up the blast for awhile, till we know by certain signs that we have got off as much of the lead as possible. A mass of molten silver remains, and so it scales a garden when proposed services which gives to the surface. as it cools a curious phenomenon occurs, which gives to the surface of the solified metallic mass a rugged miniature volcanic appearance.
Melted silver has the property of absorbing and retaining while melted a quantity of oxygen gas, and as the metal solidifies this gas is given off with a kind of explosion, rupturing the crust which had formed on the mass; the silver can absorb 22 times its volume of oxygen. Another method of separating silver from lead, known s the method of desilverisation by crystallisation, was discovered y Mr. Pattinson. By the old method it did not pay to extract the ilver if it was less than 8 ozs. to the ton, by Mr. Pattinson's process silver if it was less than 8 ozs. to the ton, by Mr. Pattinson's process if there be as much as 3 ozs. to the ton it will just about pay the expense of extraction; all above that is gain. His discovery was that it is possible by very simple means to concentrate the silver contained in a large quantity of lead into a small quantity of lead. It is on the same principle as that by which ice formed in impure water is nearly pure. Here the silver is the impurity, the lead corresponding to the water, and its crystallising to the freezing of the water. A quantity of lead, five or more tons, is taken and smelted in a large cast-iron pot. After it is melted it is allowed to cool slowly, being stirred up the whole time, part of the lead crystallises out, and after a certain time a long iron ladle is introduced in the liquid, and the crystals fished out. These crystals are nearly pure lead, nearly the whole of the silver remaining in the still molten mass. By repeating this process several times we obtain a lead very rich in silver: ing this process several times we obtain a lead very rich in silver; say we started with 8 ozs. to the ton, we may have brought it at last to the amount of some hundreds of ounces to the ton.

MIDLAND INSTITUTE OF MINING ENGINEERS.

The usual monthly meeting of members was held at the Queen's Hotel, Leeds, on March 4, Mr. W. P. Maddison, the president, in the chair. A long and interesting discussion took place on a paper recently read by Mr. Samuel Frith, of Leeds. "On a Universal Rail Gauge for Collieries." The non-uniformity of gauges in collieries is Gauge for Collieries." The non-uniformity of gauges in collieries is a constant source of perplexity to colliery managers, and the adoption of one or two uniform gauges for thick and thin coal mines would, it was felt, be a great boon, more especially in view of the probable general adoption of coal-cutting machinery, which is considerably retarded by the multiplicity of gauges, and renders the general manufacture of coal-cutting machinery a very difficult matter. It was decided to forward a copy of Mr. Frith's paper to all the mining institutes in the kingdom, with a request to consider and report on the matter.

A discussion of a very interesting character took place on Mr. J Hopton's paper, "On Underground Fires," a subject which is of peculiar interest, from the fact of many smouldering fires being in existence in large collieries, forming a constant and unseen source

A discussion also took place on Mr. Teak's paper "On Safety-Lamps," more especially with reference to the question—What is the actual cause of so many so-called safety-lamps exploding when the point of danger arrives? Other business of a routine character was transacted, and the meeting separated.

THE MANCHESTER EXHIBITION OF APPLIANCES FOR THE ECONOMICAL CONSUMPTION OF FUEL

UTILISATION OF WASTE HEAT FROM BOILERS.

In the Journal of Feb. 28 we dealt with the vertical class of econo misers for utilising the waste heat of boilers, as represented by the patents of Mr. Joseph Twibill and Messrs. Edward Green and Son, for heating the feed water, and we will now describe the special features of the remainder of the exhibits in this particular class, which embrace the screw, the horse-shoe, and the letter V-shape in the economiser pipes.

First we will deal with the economiser patented by Mr. Andrew Bell, of Carr Hall Foundry, Haslingden, which in place of the vertical pipes consists of a set of spiral coils, constructed to be placed in a fine about 6 ft. high, by about 3 ft. 8 in, wide. There are three coils, which consist of nine twists, with a space of about 2½ in between the outer surface of each pipe. The pipes have a 4 in, bore, and are cast in half circles, with bored and turned joints, further secured by having an iron thimble running round them. The object in easting the pipes in sections has been that in case of accident the damaged portion of the pipe can be renewed, and this, it is stated, with comparatively very little trouble. The coils are contained in a frame, and as they neither act as supports, nor are at all dependent upon the brickwork, the freest scope is given for the expansion or contraction of the pipes. The economiser is covered in with cast from plates, supported upon iron pillars, which are a portion of the frame containing the coils, and for the purposes of repair when necessary any coil can by removing the top plates be withdrawn without disturbing any other portion of the apparatus. The action of the scrapers for cleaning the pipes of soot, or non-conductor, is a peculiar feature, and, of course, from the shape of the pipes, altogether different from that in the vertical economisers. The scrapers are made in two sections, the top half resting upon the pipe by its own weight, and the second half being kept in position close to the under portion of the pipe by means of a balance weight. For the working of the scrapers there is a centre shaft, carrying two arms within each coil, to which motion is given by a worm-wheel at the top of the economiser. When the shaft is put in metion the arms ca'ch the scrapers, and propel them along the line of pipes, which is a screew, until they reach the botton, when the reversing action of the shaft drives them to the top. The scrapers, of which there are only two to each odd, these m First we will deal with the economiser patented by Mr. Andrew

pipe, the hot air strikes the back of the other half of the twist on the oppose of the coil, and it is claimed by that this means less piping is necessary for the water to the same heat than in the vertical class. Another feature is water has a uniform and continuous circulation from the intake to the dist the water, after passing up one set of coils, passing down the next in a costream, the effect of which is, it is claimed, that all sediment is held in a and is passed through the coils, thereby avoiding any deposit of scale or increase.

This accommission patential by Mr. Francis Erskine, of Onese's the commission of the commission

F. ERSKINE AND CO.'S ECONOMISER.

This economiser, patented by Mr. Francis Erskine, of Queen's Iros. works, Manchester, is of the horse-shoe shape, and the one exhibited is about 3 ft. high, with a set of ten pipes. These pipes are constructed for ranging along an arched flue, without the usual covering plate, set from their form, beyond diminishing to a certain extent the area of the flue, the offer no further impediment to the draught, and this is olatimed by the inventor a special advantage. Amongst the other advantages set forth is that a thorough all the tubes, thus preventing the somulation of water is maintained through all the tubes, thus preventing the somulation of scale, that it is also an efficient superheater, that it is easy of access every part, can be adapted in size to any space, and that the pipes can readily elevancy. With regard to the last matter, it may be mentioned that in the exhibit there are none of the usual scrapers, although these, if cleaned, can be applied set worked from a shaft, revolving in the centre of the pipes, or the cleaning of the scot can be effected by means of a steam jet. This is effected by runing a perforated 2-in, pipe, connected with the boligr, along the centre of the economiser, and turning on the steam, which, by the high temperature of the flue, become superheated, when it is thought necessary to clean the pipes. The inventor, lower, prefers hand cleaning to either of the above mechanical processes, as the specialong the centre of the pipes affords easy access to every part. With regard to be pipes, we may add that they are like those in the other economisers, in, be, with socket joints bored and turned, and fitted metal to metal, and tested to a possure of about 500 lbs. per square inch before leaving the works.

OLDHAM'S ECONOMISER. Mr. John Oldham, of Manchester, exhibits an economiser which Mr. John Oldham, of Manchester, exhibits an economiser which does not pretend to any of the elaborate construction of the appearatus we have previously described. It consists simply of an arrangement of about 2 in. wrought-iron or copper tubes, constructed in the V or segmentine shape, which, instead of intercepting the heat in the flue, are placed at the effort the boller furnaces, where they answer for the bridge above the bars. The few water enters by a pipe placed underneath the fire-bars at the side of one funus, passess through the serpentine arrangement of tubing or heater, and then only pipes placed underneath the fire-bars in the other furnace. The heater thus receives the full power of the Bame, and its close proximity to the fire prevents the adhest of the soot, so that any complicated mechanical arrangement for scrapers is better dispensed with. Amongst the advantages which the inventor claims for are that there is no danger from explosion, as the bursting of a tube would simply a transgement, but its efficiency would appear to be somewhat limited.

MECHANICAL STOKERS, AND SMOKE CONSUMING APPARATIS.

MECHANICAL STOKERS, AND SMOKE CONSUMING APPARATES Mechanical stoking, apart from its other advantages, is an introduction in the effectual consumption of smoke, and, therefore, it may properly be dealt with in conjunction with the appliances which aim mirrectly at this important end.

officetly at this important end.

DILLWYN SMITH'S MECHANICAL STOKER.

This mechanical stoker, which is exhibited by Messrs. Dillwyn Smith and Co., of Liverpool and London, is specially constructed in burning small coal and slack. The apparatus consists of a large hopper and a cylinder containing an archimedian serew, so constructed and fine to the boiler as not to interfore with hand stoking when this is found necessar. The fuel is fed into the hopper, and falls direct on to the archimedian serew, with ranked the which conveys it to the fans or feeders, which are kept continuly revolving, and by this means a regular supply of steam is secured, the supply of fall big regulated by simply raising or lowering the driving band or agraduated coe. For this apparatus a large number of advantages are claimed, the more important which are that it increases the generation of steam, that ordinary slack is make a fficient as steam coal, and that it saves the injury to the boiler which is caused by the constant contraction and expansion of the plates, resulting from the frequency of the furnace door in hand firing. In connection with this apparatus inventor also exhibits a set of patent fire-bars for enabling the stoker to break by means of a lever outside the furnace.

HANWORTH AND HORSEFALL'S SELF-FEEDING FURNACE.

HANWORTH AND HORSEFALL'S SELF-FEEDING FURNACE.

Messrs. Hanworth and Horsefall, of Todmorden, exhibit what is termed a patent self-feeding smoke-burner and fuel economiser for nace, which possesses very considerable merits. In front of the boils is a hopper to receive the coal, at the bottom of which is a moveable grate, whis is moved backwards and forwards at certain intervals, and at the end of this near the boiler, is another grate, moved backwards and forwards in a similar munc. Beyond these grates, and in the flue of the boiler, are a number of tubular weight iron bars, illling up the whole of the flue, and sloping inwards towards the interior bars, illling up the whole of the flue, and sloping inwards towards the interior of the boiler. These tubular bars or water pipes are flat at the top, and seni-ieroz below, and are connected at the lower end with the bottom of the flue, and at top with the front of the boiler at a point near but below the surface of the safe, a constant circulation of water being thus produced through the hollow these Between these tubular bars rakes or serapers, made of wrought sheet-inn of she 14-in, wire gauze, are forced to break up the fire, and move it forwards toward the bridge. The practical working of the furnace is as follows:—The fuel between the surface, and by this to the tubular bars. The rakers then push it format and in doing so break it up, and allow the air to pass through, and thus some combustion. The smoke in passing from the grates over the tubular bars as combustion. The smoke in passing from the grates over the tubular bars is secretainly a very efficient one for the purpose for which it has been designed, and the feed water for the boiler is also heated in the bars. The appends is certainly a very efficient one for the purpose for which it has been designed, and the feed water for the boiler is also heated in the bars. The appends is certainly a very efficient one for the purpose for which it has been designed, and the feed water for the boiler is also heated HANWORTH AND HORSEFALL'S SELF-FEEDING FURNACE.

Messrs. Wm. Young Brothers, of London, exhibit a patent smile preventor, with spiral bars, which is adaptable to every description of furnace, grate, or stove. The smoke preventor in this instance fixed to an agricultural engine, and is composed of spiral bars, mounted on an immoved by hand each time fresh coals are required, and the object is to introduce the fuel at the botton of the fire under the burning coals, by which means the production of smoke is prevented, whilst, every combustible element being consume a material increase of heat is obtained, and a considerable saving of fuel consequence of the control of the fire of the control of the saving of the consequence of the control of the saving of the consequence of the control of the saving of the consequence of the control of the saving of the consequence of the control of the saving of the consequence of the control of the saving of the consequence of the control of the saving of the consequence of the control of the saving of the consequence of the control of the saving of the consequence of the control of the saving of the consequence of the control of the saving of the consequence of the control of the control of the saving of the consequence of the control of the control of the saving of the consequence of the control of the c

APPARATUS FOR THE CONDENSATION OF SMOKE.

Messrs. Heslop, Wilson, and Budden, of Newcastle-upon-Type, Mi
Messrs. Johnson and Hobbs, of Manchester, exhibit the model of Messrs. Johnson and Hobbs, of Manchester, exhibit the model of simple and comparatively inexpensive apparatus for the condens tion of smoke and gases. The apparatus is constructed on the paddle-whelp of ciple, with an addition of projections on the blades to produce a spray of few wood, shingle, or other material, arranged as may be required for the partial averaged as may be required for the partial arrested to the apparatus and condensed, the products being afterwards, instead becoming a nuisance, capable of utilisation in various ways. The apparatus is plicable to any process for preventing the emission of blacks, gase works, and it makers claim that the great expense of building large stacks of chimneys can done away with by the use of this machine.

BURKITT'S SMOKE CONSUMING APPARATUS. only exhibits a drawing, the principle of his invention is well well notice. The inventor starts on the assumption that for the perfect consumption of smoke it is necessary to have some mechanical contrivance begins to the unconsumed carbon the necessary amount of heated air or oxygen, which for perfect combustion of the constituents of coal, is found to be in proportion in the volumes of air to one volume of gas from the coal. This he propose is distributed in the first heathnay gets heated or red hot air supplying the necessary oxygen, diet meeting the unconsumed earbon or smoke, and mixing with it in a chamber, this is formed by fixing a perforated fire-clay screen, the smoke and fire also by inging against the red-hot screen complete the mixing, and also ignite the first heated gas. Should some unconsumed smoke or carbon pass thereof from the first chamber, it is intercepted by a dished or conical-shaped screen, hard only a central opening upon which the chimney directly acts. The smoke belineavy fails to the bottom of the second chamber, and rising, meets the flane giving through the orifice which consumes it, the door in front of the holler has being shut when the gases are consumed.

Holloway's Pills.-The truest philosophical spirit of en HOLLOWAY'S PILLS.—The truest philosophical spiritude do the discovery of this priceless medicine, and the most unselfab lat expense have been incurred in bringing so great a boon to the knowledge and the reach of the afflicted throughout the world. Every invalid who can understand the plain directions in his own language which are folded while great attention should be taken in the doese and at the times distinctly specially however, are important, in as much as they augment the curative power of prevent them from disagreeing with the most delicate, and spare time and s

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Original Correspondence.

NEW QUEBRADA MINING COMPANY.

NEW QUEBRADA MINING COMPANY.

Sir.,—On reading the letter of the "Old Shareholder," in last week's Journal, I felt indeed much alarmed. I am not an old shareholder, having purchased my felt indeed much alarmed. I am not an old shareholder, having purchased my shares within the last two years, and my first impulse was to call at the office of shares within the last two years, and my first impulse was to call at the office of the company. After three visits I succeeded in seeing the secretary, but I must say I did not get much information from him, for, like Cambing's knife grinder, say I did not sort to tell." I could not help feeling the justice of the remarks made by several shareholders at the meeting that the Quebrada Company has now made by several shareholders at the meeting that the Ruberdonder to the Bolivar lost its identity wholly, and is simply the helpless dependendent of the Bolivar lost its identity wholly, and is simply the helpless dependendent of the Bolivar lost its identity wholly, and is simply the helpless dependendent of the Bolivar lost its identity wholly, and is simply the helpless dependendent of the Bolivar lost its identity wholly different from any of those previously received, and I think he said that it wholly different from the shareholders by the board. My object was to learn if had been withheld from the shareholders by the board. My object was to learn if had been withheld from the shareholders by the board. My object was to learn if had been withheld from the shareholders by the board. My object was to learn if had been withheld from the shareholders by the board. My object was to learn if had been withheld from the shareholders by the board. My object was to learn if had been sick in the property of the same day in the had been received, but the board attributed it to the depressed favourable, as to the quality of the ore, but the board attributed it to the depressed favourable, as to the quality of the ore, but the board attributed it to the depressed favourable, as to the q

through the Journal I shall feel I have helped it.

London, March 12.

NEW QUEBRADA MINING COMPANY.

**Sita—So it appears that after 10 years trumpeting of the enormous richness and extent of the ore deposits of this mine the only responsible and perfectly competent on the force he has been there a month discovers the tent man we have ever sent out before he has been there a month discovers the tent man we have ever sent out before he has been there a month discovers the tent man we have ever sent out before he has been there are month discovers the tent man we have ever sent out before he has been there are month discovers the tent man we have ever sent out before he has been state a but of the over body. The dinameter 10 per cent. at least, this is what is in the mouth of everybody. The dinameter 10 per cent. at least, this is what is in the mouth of everybody. The dinameter was the statements therein made. It is said that duty alone prevented at variance with the statements therein made. It is said that duty alone prevented at variance with the statements therein made. It is said that duty alone prevented at variance with the statements therein made. It is said that duty alone prevented at variance with the statements therein made. It is said that duty alone prevented at variance with the statements therein made. It is adaptated by a gentleman who generally knows Quebrada matters better than anybody else, that the railway contract rally knows Quebrada matters better than anybody else, that the railway is as far has been abandoned by the contractors, and hence once more the railway is as far has been abandoned by the contractors, and hence once more the railway is as far has been abandoned by the contractors, and hence once more the railway is as far has been abandoned by the contractors and the general condition of the company than any other man. I was disappointed to find him very retient upon everythan any other man. I was disappointed to find him very retient upon everythan any other man. I was disapp

clearing under this stope in order to get into the end of the level. The men say that there is a good rib of lead in the said end, but I was not able to see it myself. Judging from what I saw within about 3 fms. of the end (which was the furthest point that the men had cleared to) I think I may give them credit for their statement, as at that point they have a very kindly lode.—No. 2 Adit: This level appears to be in a channel of ground, wherein you may probably find the lode rich, and eventually come upon good deposits of lead (although shallow) as it continues to be extended eastward. Splendid stones of lead have been found in the back of the lode in the eastern part of your sett irom time to time. Therefore, I would again urge upon you the advisability of prosecuting the driving of No. 2 adit with all dispatch. I would also eall your attention to the driving of the lo, west of Hill's cross-cut, which I think should be continued for 3 fms. further, in order to try whether the pipe of ore seen in the deep adit, 14 fms. west of winze, holds down.

FOREIGN MINES.

FOREIGN MINES.

St. John del Rey.—Morro Velho, Feb. 1: General work going on regularly. Quantity of mineral raised during past week, 90 wagons per diem. No change apparent in quality of lode. Cross-cut from B shaft has just reached the lode, the quality of which will be proved in a day or iwo.

Port Philllip And Colonial (Gold).—Telegram, Melbourne, March 6: "Month ending Feb. 25, yield per ton 4 dwts. 12 grs."

Birdseye Creek.—Telegram: We have cleaned up after a run of 30 days. The gross returns are \$12,750. The profit is \$8000.

I. X. L. (Gold and Silver).—Mr. Lewis Chalmers writes:—I wrote you, with my annual report and plan of the mine, on the 11th inst. The north drift from the 200 has has been driven 11 fr., and the south drift 11f. No change worth mentioning. Road to mine again completely blocked by a severe snow storm. I shall spend no more money upon it this winter.

Exchequer (Gold and Silver).—Feb. 16: Mr. Lewis Chalmers writes:—I trust you will receive the plans safely, as without them you cannet well follow my report. The rich ore stratum is not quite so wide this week: about Thursday it narrowed to 12 in, but we have still a masterly lode. We drove 10 ft. during the week, and sank 7 ft. of engine shaft. The shaft is now down 132 ft., and the rock softening as we near the lode. Our utmost efforts ought to be taxed to get this shaft down to the 500. Even the running of the Acacia adit ought to give way to this, although both ought to go on together.

Mineral Hill.—Mr. Oakes, Feb. 16: The ore raised this week is 50 tons of an average grade of \$40 per ton; the quantity is somewhat increased, but the grade is lower than usual. We have been obliged to suspend for a time the explorations in the Taylor tunnel, and the four men have been put to break ore in the Giant Mine.

Chicago (Silver).—E. J. Dowlen, Feb. 12: The Chicago at shaft bottom continues to look well, the ore body being at least 4½ ft. wide. The ore

and the control of th

lode in February 2:10 metres; set for March to four men, at 120 fes, per metre lode quartz, 1810, wide.

CAPE COPPER.—Capt.Tonkin reports of the trial mines; Karolusberg; The end of the level is at present producing but little copper ore, although the gound that we are driving through is of a very promising nature. We shired the points—Kilduncan: The bettom of his shaffer to carry on the trials from different points—Kilduncan: The bettom of this shaffer to carry on the trials from different points—Kilduncan: The bettom of this shaffer to carry on the trials and put the men to drive in the ore ground, about 2 (ns. above the deepest point.—Narray Juline is at present looking and the majoritish, but we intend to drive on the level arrived at Swansea. Bills of lading are received for 250 tons of ore per steamers 480 tons of ore and 14 tons of regulas have been sold by public ticketing on the loth inst, atanaveraged 185.84, per unit, realising approxim-tely 11,660%; regulas, 500%. Por North 1914 The 1

and east of Bray's shaft, under the 35, a stope yielding also 3 tons per fathom. Estimated raisings for this month—65 tons.

RICHMOND CONSOLIDATED—TESTIMONIAL TO MR. McGEE THR MANGER.—In acknowledgment of the uniform kindness and generosity which the miners had invariably received from Mr. McGee's hands, they decided to present him with a sourcen's by which he could recall the pleasant times while having in control the destinies of the Richmond, which, by his rare foresight and indefatigable efforts, he has succeeded in bringing into succeeding the receiving the restimonial, responded as follows:—Mr. Howell and Gentlemen: To thank you for this unexperted token of your estem and regard is but a poor expression of the feeling of my heart. It will be cherished by me, not for its intrinste chain that binds together the hearts of men of toil. It has been my constant endeavour to make the Richmond Company a success. That it has been accomplished will be seen by the quantity of ore developed since Sept. 21 last, which is unprecedented in the history of the Pacific Stope, and could the stockholders in London see themselves what we see, shares would not sell for 6½7, as they now do, but would advance to 12. or 18/. In conclusion, allow me to wish you a prosperous and happy life; and I hope, when you are called to account for the deeds done here in the body, your hearts may be as pure and brilli nat as this beautiful diamond I see set in this locket." After the pre-entation, the company adjourned to partake of a luncheon. In reponse to the tosat of the Richmond Mining Company, Councillo Wren said:—"Like yourselves, I too have been a miner. This good feeling between employer and employees is one that deserves the highest encomiums, and bodes much good to the success of the workings of the Richmond Mining Company for the future." He concluded by renewed expressions of estem and respect to Mr. McGee and the miners by whom he was surrounded. Judge Baily being called to the floor, responded as in the following manner:—'I cong

more reliable in mining matters than J. B. McGee.

THE IDAHO MINE.—One of the most noted mines in California is the Idaho, of Grass Valley. But few mines, if any, in this State are as valuable. It has been paying regular monthly dividends for nearly five years, having disbursed to its stockholders during that time the sum of \$1,084,050. More than one-half of this amount, or \$682,060, has been paid to the stockholders during the last year. The entire receipts of the mine have been \$2,311,437.87, of which \$1,020,612.10 was the product of 1873. The dividends have reached 414½ per cent. of the capital stock since the mine has been operating, and 220 per cent. of that has been paid during the year just past. The mine still looks well, and the prospects are that dividends will continue for an indefinite period. The dividends of this mine were larger during 1873 than those of any other Californian mine: the Eureka and Consolidated Amador were the two next largest, the former having paid \$300,000, and the latter \$12,000. We are proud to chronicle such handsome returns from our quartz mines, and hope that such good results will stimulate our mineowners everywhere to prosecute work with renewed energy.—Coast Review.

AUSTRALIA AND NEW ZEALAND.—A highly interesting Handbook for Australia and New Zealand has just been Issued by Messrs. S. W. Silver and Co., the well-known outfitters of Cornhill, and contains really all that an emigrant, whether a capitalist or a working man, is likely to require. The several chapters refer respectively to New South Wales, Victoria, South Australia, Queensland, Western Australia, Tamania, and New Zealand, and each of these are so subdivided that the reader, whatever may be his trade or profession, may readily refer to the aubject in which he is more particularly interested. In each chapter considerable space is devoted to the consideration of the geology of the colony under review, and the same may be said with regard to mining, trade, manufactures, &c. There are more than 400 pages of really attractive reading, and much of it will prove no less acceptable to those in this country than to intending emigrants. The volume will, doubtless, have an extensive circulation.

The volume will, doubtless, have an extensive circulation.

PEAT.—Messrs. A. Nourey and I. Masse, of Paris, have patented some improvement in preparing peat, and in the machinery employed therein. The peat in its natural state is delivered into a hopper in which are two or more toothed rollers to tear it up; it then passes to a drum with blades by which it is macerated. The peat combined with peat liquor then flows into a sieve to remove stones, and then into a cistern in which the sand accumulates, and the solution of peat flows to a machine similar to those used for making paper, by wich the fliquid is separated from the solid portion; the latter drops into a press, the plunger of which forces the peat through dies in the form of solid or hollow rock, tubes, on blocks. The peat thus compressed is dried gradually in a stove divided into several compartments. The improved free lis made by combining pounded anthractic coal with the tar obtained by the distillation of peat.

LONDON GENERAL OMNIBUS COMPANY.—Traffic receipts for the week ending March 8, 9592/. 13s. 4d.

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BRITISH MINES.

BRITISH MINES.

ABERDAUNANT.—S. Toy, March 11: Intermediate Level: This stope is much the same as reported last week, worth 10t, per cubic fathom for lead. In No. 2 adit, driving east, the men have driven more than 2 fathoms since last setting day, and have taken down the north part of the lode sufficient to make all room required for filling the tram-wagon; I have set the men to rise above this level, at \$\delta\$, 10s, per fathom for the month, the rise to be carried 8 ft. long and 5 ft. wide. This rise when finished will ventilate No. 4 stope, where I want to get as soon as possible to work on the lead. We sampled 10 tons of lead last Friday, and sent samples to smolters inviting toneders for the same, which will be sold on March 20.

BAMPFYLDE.—Sammel Mitchell, March 9: Our prospects at the copper mine indicate an improved future. At No. 4 shaft the several stopes continue to yield in the aggregate 10 tons of rich copper ore per fathom. At the 70, the ground in the cross-cut is easy for driving. At the 102, driving west, we met with a cross-course, and we have now the lode again on the other side of it. At the caping-shaft, the lode driving on east of said shaft is large, and is yielding a good quantity of fine copper ore. I am pleased with its general appearance, the character and composition of the lode and the stratum in which it is embedded is everything that could be desired for the production of a large course of copper ore. The dressing of the copper and everything in this department is going on satisfactorily.—I ron Mines: The new iron lode recently discovered at Croborne is now in our present drivage 5 ft. wide, all iron of high persentage, and all our points on other lodes in this part of the property are yielding fair quantities of iron ore. At Stowford the lode continues as good as ever, and is yielding fully 30 tons of rich iron ore per fathom: the several other lodes in this part of the mine will yield their usual quantities of riron ore, and at the present time we have fully as much iron ore d

Rs well.

BOG. -W. T. Harris, J. Barkell, March 11: Engine Shaft: Very satisfactory
BOG. -W. T. Harris, J. Barkell, March 11: Engine Shaft: Very satisfactory

notice since last report. The different points of operation continue to look equally as well.

BOG.—W. T. Harris, J. Barkell, March. 11: Engine-Shaft: Very satisfactory progress is now being made in sinking below the 163; the lode indicates a favour able chinge, is casier, and contains an iner assed quantity of lead and blende. No change in the ground in the cross ent driving north at the 130. The lode in the 50 driving cast is 16, wide, containing lead and blende in paying quantities, and very promising. The winze sinking below the 30 cast, and reported in our setting report, has been suspended in consequence of water; this will eventually be drained off as the 50 approaches under. In the meantime we have commenced sinking No. 2 winze about 29 fms. farther east—are down 9 ft.; the ground is good for progress, and the lode yielding some good stones of lead and blende. The tribute pitches are yielding fair quantities of lead and blende.

BOWDEN HILL.—J. Goldsworthy, March 11: The total distance in the adit level is 10 fms. 2 ft. The stratum is compact, light blue elsy slate rock, intermixed with vins of expel, and at times showing veins of manganess in the joints of the rook; we look forward to have easier ground. We have completed the creetion of the smiths shop, with the necessary fittings. We have a little more maiden earth to remove, and then the ground will be properly fenced for the protection of the smiths shop, with the necessary fittings. We have a little more maiden earth to remove, and then the ground will be properly fenced for the protection of the cattle. We have all the fence ready.

BRONFLOYED—3. Davis, March 11: Settings for March: No. 2 Shaft; Two men to extend Loyd's cross cut, south of the 52, towards the south lode, at 50, per fathom. This is 73'f, fms. Iong.—No. 3 Shaft, North Lode; Four men to drive the 73 cast, at 165s, per fathom. The lode is composed of ime, and produces about 4 cwts. of lead ore per fathom. This is 70 fms. Four men to extend Loyd's cross cut, south of the 52, towards t

at surface; but this I hope will not continue to hold long. All our machinery is working well.

BURROW AND BUTSON.—John Christophers, James Mayne (St. Agnes).

March 11: In the end of the 62 driving west the hole is about 3 ft. wide, with well defined walls. About 6 in, of the lode is emposed of copper and blende, and the remainder of capel, quartz, and peach. In the 40 clearing west we have not done much this week, having been busy stoping some of the lode, which yields about 2½ tons of blende per fathom, strongly mixed with copper. The clearing of the 20 west is being pushed on. Here the level has taken a turn south and left the lode, but it is apparently turning towards it again.

In the driving of the 20, east of Tonkins, the lode is showing an improvement, being now about 3½ ft. wide, curying a flookan of 6 in., and showing good stones of lead and blende. In two or three days we shall be able to commence rising in the back of the 50, west of engine-shaft, on that part of the lode which yielded lead when we were clearing the level.

In the driving of the 20, cast of Tonkins, the hole is showing an improvement, being now about 3½ ft. wide, currying a flockan of 6 in., and showing good stones of lead and blende. In two or three days we shall be able to commence rising in the back of the 50, west of engine-shaft, on that part of the lode which yielded lead when we were clearing the level.

BWADRAIN CONSOLS.—R. Northey, March 9: The lode in the 65, driving east of Wynnes shaft, is 3 ft. wide, smaller than it has been. We are now under the piece of dead ground that was driven through in the 55, before we got to the eastern bunch of ore ground gone below the 55, we may, therefore, expect a change in driving the 65 in a short time. There is no change in the stope in the back of this level, worth 18 ewis, lead ore per fathom. The lode in the winzesinking below the 55 is 5 ft. wide, and worth 1 ton lead ore per fathom. The lode in the 55, west of Wynne's shaft, is improving, now 4 ft. wide, producing good saving work for dressing, and looking very promising. We are pushing on as fast as we possibly can with the dressing, and we have 10 tons of lead ore dressed since last sampling. HWLCH CONSOLS.—R. Northey, March 9: The shaftmen have completed cuting ground south of the old engine shaft at the 82, and are in a regular course of sinking the shaft behow that level, and every effort will be made to get it down to the 92 with all dispatch.

CEFN BRWYNO.—J. Paull, March 10: I send you pay-sheet for Saturday last. The following bargains have again been let—The 104 to drive cast by four men, at 185s, per fathom; look 5 ft. wide, worth 12 evits, of lead ore per fathom, with every indication to further improvement. Two pitches over the 104 east to tour men in each, at 165s, per ton, in which the lode is 4 ft. wide, producing 18 evits, to 1 ton of lead ore per fathom. A pitch over the 80 and 56 east to eight men, at 165s, per ton, look varying from 3 to 6 ft. wide, worth 12 evits, of lead ore per fathom. We have severe frost and snow here to-day, but I hope

ing 2 tons of copper ore per fathom.—Blewitt's Shaft: In the 220 driving west the lode is a ft. wide, yielding stamping work.—Richards' Shaft: In driving the 200, west of shaft, the lode is 4½ wide, yielding 2 tons of copper ore per fathom, and looks favourable for further improvement. The stope in the back of this level is yielding 3 tons of copper ore per fathom. We have no particular change to remark on in the other tutwork bargains. There are employed this week—on tutwork, 117 men and boys; on tribute, 58; at surface, 62; total, 297.

CWM ELAN.—Wm. Goldsworthy, March 7: The mine in general is about the same, or I may say there is no change to notice since last report.

DE BROKE.—F. Hodge, March 9: The 25 east end to six men, at 10½ per fm;; the part of the lode carried is 5 in. wide, of no value. The 25 west end to six men, at 10½ per fm;; the part of the lode carried is 4 ft. wide, composed of lime, slate, and quartz, with occasional stones of ore of a promising character. To stope in the back of the adid level to two men, at 30, per fathom; worth 12½ per fathom. The 25, to drive senth-west on the caunter lode, to four men, at 64, 10s, per fathom; the lose in which is 6 feet wide, composed of lime, quartz, slate, mundie, and spots of ore; a promising lode. At surface we are making rapid progress, the carpeaters have fixed the main shaft, centre pieces, and all the arms are in the wheel, we are also well on with the launders to bring home the water. The masons have commenced the crusher house, and I hope to have the walls up to receive the crusher in (say) three weeks from this time; everything shail be pushed on as fast as possible, so as to get lead in the market at an early date.

DERPARK.—J. Goldsworthy, J. Bucknell, March 7: The shaftmen are getting on satisfactorily with the fixing of the necessary work. The pitwork is nearly completed. The engineers are making rapid progress in their department, and if things go on favourably the engine will soon be ready to work. The carpenters are the sucrements an

before reaching the spot where there is every probability of our making a rich discovery. The fode in the 112 west is of a changable character, the width varying considerably. At present the ground is getting easier, and showing a little lead. Its composition is every thing a miner could visit to see. The new lode out of the 66 west has not charged sufficiently to notice.—Junction Shaft: We have made great progress so far with this important sinking, as the ground is very favourable; I calculate that we are now down nearly 9 yards. The sinking, as I previously informed you, need not be so deep as first stated.—Cook's Eleanor Shaft: This is also down 10 yards, so you will perceive that since the meeting we have not lost any time in carrying out the different operations then sanctioned, and I am sangume that when complete they will answer expectations.

DYLIFFE.—E. Evars, E. Rogers, March 11: We beg to hand you our weekly report, which we consider encouraging. At the boundary shaft we expect to be down a sufficient depth to commence driving at the 120 about the middle part of next week.—Dyliffe hole: The various points of operation are fully as well as we expected. We have made a communication, by virtue of the wince, from the 18 to the 25. This has given us good ventilation, and enabled us to set three stopes in the back of the 25, west of old engine-shaft. The average value of the lode is about 25:, per fathom.—Esgingded Lode: We are also glad to say that we have cut into the orey ground in the 45 west, which is looking splendid. So far as seen it is worth 28:, per fathom.—Esgingded Lode: We are also glad to say that we have cut into the orey ground in the 45 west, which is looking splendid. So far as seen it is worth 28:, per fathom.—Engingded Lode: We are also glad to say that we have cut into the orey ground in the 45 west, which is looking splendid. So far as seen it is worth 28:, per fathom.—There is no alteration worthy of notice on the Liechwedd-duote. We are soorry to say the pressing is partially stope

80 tons, realising 1022/.

EAST BALLESWIDDEN.—T. Trahair, March 11: The new shaft is taken up as deep as the 50 fm, level; we have not hauled any stuff from this level. The stopes in the back of the 40 fm, level on the Soldier's lode is producing a great quantity of tinstuff. The stopes in the bottom of the 20 fm, level on the flat lode is looking well. The 30 fm, level, driving west from engine shaft, is looking just as last reported. The lode in the back of the 30 fm, level is producing good stones of tim. The stopes in the back of the 20 fm, level on the Rose lode is not looking so well as when lost reported.

looking well. The 39 Im. levet, driving west true to the Rose lode is not looking so that. The stopes in the back of the 20 fm. level on the Rose lode is not looking so well as when last reported.

EAST BLACK CRAIG.—T. Cogar, J. Betty, March 11: No. 3 cross-cut, in the 108 fm. level, cast of shaft, is still worth 20%, per fathom for lead. The stope west of winze continues we. th 25%, per fathom for lead, and 10 cwts. of blende. The stope west of shaft is worth 20%, per fathom for lead, and 1 ton of blende. The back of No. 1 cross cut is worth 20%, per fathom for lead, and 2 tons of blende. The 90 end, driving east of shaft is worth 25%, per fathom for lead, and 2 tons of blende. The 90 end, driving east of shaft, is let to two men, at 4%, per fathom; worth 15% per fathom for lead, and a little blende. The old stopes are yielding their usual quantities of leud.—Palmure: We shall start to drive the level again as soon as the men have eleared their staff. Surfacee working going on well, and we are getting on well with the new machinery.

EAST CHIVERTON.—R. Southey, March 12: Since my last good progress has been made in the 64 fm. level, driving west of engine shaft, by six men, at 45s, per fathom; the lode still continues about 3 ft. wide, with the same promising appearance as when last reported on a for night since. Not much has been done in the 25 fm. level, driving east, since our last setting, day (nine days ago) in consequence of the men refusing to do a fair day's work for a fair day's pay; so, rather than submit to imposition from them, I suspended operations in this level until good men could be got to take their place. To-day I have succeeded in doing so, and have set the level to drive with a full force of able miners at 42s, per fathom, as much as they can drive for the month. The appearance of the lode going east is looking very good for an early improvement, and as we have now good able miners at work we shall make better progress at this point, which I am looking forward to with the greatest interest

other tutwork bargains, together with the trebute pitenes, are without canage to notice. We are making good progress with the necessary work preparatory to forking, which we hope to commence on Monday next.

EASI WHEAL LOYELL.—Richard Quentrall, March 11: Tutwork: The shaftmen have this week commenced taking up another stope in bottom of the shaft, and have dropped the lift 14 in. The lode has never looked better below the lob than in the present bottom.—Tregonebris: We have commenced to sink the new engine shaft below the 30; lode worth 15/, per fathom. We expect to complete the clearing of the adit to the engine-shaft during the next forthight. We are clearing the cross-cut south at the 10, and have suspended the stope below adit on the intermediate lode until it is drained by the said cross-cut. We are raising about 3 tons of tin per week.

EASI WHEAL SETON.—W. Pascoe, Henry Arthur, March 12: We have driven 9 ft. south at the 70 cast from Henrietta in the lode, but have not yet cut the south wall; it is letting out water freely, which leads us to think that we are nearing the wall of the lode. In the stope in back of the 70, cast from Henrietta, the lode is 4 ft. wide, worth 3 tons of ore per fathom. In the stope in the bottom of the 48, west of Hosking's winze, the lode is 4 ft. wide, worth 3 tons of ore per fathom. In the stope in the bottom of the 48, east of Hosking's winze, the lode is 4 ft. wide, worth 3 tons of ore per fathom. One of the boilers of the Henrietta engine sprung a leak, and the engine was idle 24 hours. This has interfered a little worth, as we are forking the water very well.

FRANCO CONSOLS—W. Dobidge, March 10: In the shallow adit west we are driving by the side of the lode; the ground in the present end is not quite so favourable for driving, being intermixed with branches of spar, but no doubt will improve again shortly, as the branches are dippling west, and to all appearance will leave the end in a few fathoms driving.

FRONCO CONSOLS—W. Dobidge, March 10: In the shallow adit west

sworth 15', per fathom.

GLASGOW CARADON CONSOLS.—W. Taylor, W. J. Taylor, March 10: In the 78 fm. level cast the lode is worth 12', per fathom; we expect this end to improve under the course of ore we had in the 85 fm. level. The 78 fm. level was the sole is worth 10', per fathom; there is a part of the lode standing here which we shall take down at once. The middle level east is worth 10', per fathom; the same level west is worth 10', per fathom; the same level west is worth 10', per fathom. The winze in the bottom of the 65 fm. level, to come down on the middle level east is worth 10', per fathom. In the 55 cast the part of the lode carried has become small and poor; we have, therefore, set to cause the lode carried has become small and poor; we have, therefore, set to cause into the south part, hoping this will turn out to be the main lode; it is a good branch of ore where it split off some distance behind. There is no change in the 55 fm. level east, or in the rise in the back of the 45 towards the new shaft. The stopes throughout the mine are yielding about the usual quantity of ore, varying in value from 12', to 30', per fathom. We sampled yest-riday, computed 250 tons of copper ore, which will be sold at Truro on the 19th inst.

GOGINAN AND LEVYEL N EWYDD.—March 10: The lode in the 100 east is 5 ft. wide, and without any change of importance, showing a little ore at times, and likely to improve. In the rise over the 70, west of Bryn Pica shaft, there is a strong and hard lode 5 ft. wide, interspersed throughout with lead ore, and producing saving work. Good progress is now being made in timbering and repairing Bryn Pica shaft, some additional hands having been procured. We have completed the drawing machine, pulley-stands, and other/surface work now required at Bryn Pica. The lode in the four tribute pitches varies from 3 to 5 ft. wide, and will produce from 12 to 15 cwts. of lead ore per fathom. We have had a fall of snow and severe frost here to-day, but which we hope will be of short duration, so as GLASGOW CARADON CONSOLS.—W. Taylor, W. J. Taylor, March 10: In

ding 3 tons of copper ore per fathom. We have no particular change to remark in the other tutwork bargains. There are employed this week—on tutwork, men and boys; on tribute, 58; at surface, 62; total, 297.

WM ELAN.—Wm. Goldsworthy, March 7; The mine in general is about the e., or I may say there is no clunge to notice since last report.

EBROKE.—I thodge, March 9; The 25 cast oft to six men, at 10/, per fm.; at 11/, per fathom; the part of the lode carried is 4 fr. wide, composed of six the back of the additive to two men, at 3/, per fathom; the wide, state, and quart, with occasional stones of ore of a promising character. To be in the back of the addit level to two men, at 3/, per fathom; the back of the additive to two men, at 3/, per fathom; the back of the additive to two men, at 3/, per fathom; the back of the additive to two men, at 3/, per fathom; the back of the additive two men, at 3/, per fathom; the back of the additive to two men, at 3/, per fathom; the back of the additive to two men, at 3/, per fathom; the back of the additive to two men, at 3/, per fathom; the load in improvement from hast week, and I have placed the new shaft, we have new with no improvement from hast week, and I have placed the fathom; but we have an other through the additive to two men, at 3/, per fathom; the load in improvement from hast week, and I have placed the new shaft, we have new with no improvement from hast week, and I have placed the fathom; but we have an other with no improvement from hast week, and I have placed the new shaft, we have new with no improvement from hast week, and I have placed the fathom; but we have not yet the fathom, but we have not yet reached the point of intersection with Greene's load of the lode; we are now driving east on it, where we have occasional stones of lead, which is different placed. The wince under the water of the lode; we are also well on with the lawners to bring home the water.

I have the load of th

before reaching the spot where there is every probability of our making a rich dis-in the 34 end east is 18 in. wide, producing saving work, and improving. We assume that the same that the saving a further improvement here, as we are getting near the tip of a change ble character, the width varying cting a further improvement here, as we are getting near the in through in the level above. No change in any other point in VYDVR PARK.—W. Bennetts, March 11: There is no change 5 end east since last report. The lode in the 25 end south is 2½ ft. is, of leat per fathom. Two stopes in back of the 25 are each w

GWYDYR PARK—W. Bennetts, March 11: There is no change to bottle in the 25 end cast since hast report. The lode in the 25 end south is 2½ ft. wide, web. 5 cwts. of lead per fathom. Two stopes in back of the 25 are each worth 9 cm. of lead per fathom. Two stopes in back of the 25 are each worth 9 cm. at least per fathorn.

HALKIN DEEP LEVEL—March 12: In the deep level going south-west, or the deep level vein, the lode is about 16 in. wide, composed of limestone and siz, and containing spots of lead over; the ground is rather hard at present; of covering in so now down 20 yards below that level, 13 yards of which is 10 di workings and 7 yards in whole ground; we shall now commence to drive in 10 di workings and 7 yards in whole ground; we shall now commence to the strong the bottom of the winze to prove the lode in length. The lode at this point is 2 feet wide, consisting of spar and blende, and producing good stones of lead ore—write work—and looking promising. We have commenced to re-open another wing below the 174, about 31 yards to the east of the junction; we shall want to pash down this winze and drive east to meet the other men coming west, so open this ground into sections for tributers, and for ventilation. We have combet when the provide the producing lead ore on the intersection of any parallel veins. There is no passes, 60 shall; the ground is a nice white limestone—the right bearing measure, closure, it is ground into sections for tributers, and for ventilation. We have taken two men from the deep level to assist us in this bargain. There is no passes, 60 shall; the ground is a nice white limestone—the right bearing measure, closure has been passed through, and the lode is now 3 ft. wide, a small cross course has limited when the same as for some time past.

HINGSTON DOWN CONSOLS.—James Richards, March 12: Bayley's 8th, In the 140 west, or the south part of the lode, a small cross course has just be passed through, and the lode is now 3 ft. wide, and producing shall be a supersection of the second pas

ance. The rise in the adit on New Britain lode is yielding sulphate and carbonate of lead in fair quantities.

LLANARMON.—A. Ede, March 12; Since writing last report we have cut another cross branch in the west end of the shaft; it runs east of shaft, and dips southeast towards the other branch. In driving the cross cut these will both come together, which I consider a very important feature, and they will, in all probability profuse lead ere we intersect the Great Nant lode. Our prospects look most encouraging. LOVELI (THE).—John Nancarrow, March 12: The engine shaft is now inful course of sinking in a lode yielding for the length of the shaft 2 tons of tin per fine 30 cast yields 1 ton of tin per fathom. The stopes in back of the 12 are work 20. per fathom. The south lode in the 12 west contains tin, and looks promising. The produce of the tinstiff raised was never better than it is now.

course of sinking in a lode yielding for the length of the state is that the The 30 east yields I ton of tin per fathom. The stopes in back of the 12 are worth 20t, per fathom. The south lode in the 12 west contains tin, and looks promising. The produce of the tinstuff raised was never better than it is now.

NEW GREAT CONSOLS.—R. Pryor, H. Bennett, H. Tregonning, March II: The stopes and tutwork burgains throughout this mine are without change size last reported on. Our surface operations are somewhat impeded in consequence of the unfavourable change of weather within the last few days. Saturday near being our pay and setting day, a full report shall be forwarded.

NEW HENDRA.—W. Rowe, March 3: Pay and Setting Report of Marchi; The deep adit set to drive by six men, for the month, at 6t. per fathom, lode producing saving work for tin and good stones of copper ore. Since the meetingth men have been engaged in sending up the materials and securing shafts, &c., at Croft Indies, and also preparing adit shaft for drawing from the adit level, therefore nothing has been done in driving the adit end until now. We shall continue the prosecution of this point with all possible speed.

NEW ROSEWARNE.—E. Hosking, W. Bennetts, March 7: The lode in the 104, west of Bickford's shaft, is worth 30t. The lode in the 58, west of Pools shaft, is producing good stones of copper ore, and saving work for tin. The lode in the 4th promising. In the level above we have been breaking inclumps of ore 12 lbs, to 15 lbs, in weight. I hope that you will allow me to increase operations shortly.

NEW WEST ROSEWARNE.—J. Contis, March 19: Leed's flat-rod shaft is sunk.

NEW WEST ROSEWARNE.—J. Curtis, March 10: Leed's flat-rod shaft is unit

Interpolate of the 12 to 8, to 15 to 8, In weight. I hope that you win anow me to masses operations shortly.

NEW WEST ROSEWARNE.—J. Curtis, March 10: Leed's flat-rod shaft is unity fathons below the 10; lode large, and containing stones of tin of a rich quality, and from the appearance of the rock I believe the south lode is not far off, and at the junction I really believe we shall find a good lode. There is a large quantity of water oozing out of the south side from the south lode. In the stopes there in ochange since my setting report of last week,

NEW WHEAL LOVELL.—J. Prisk, March 12: The Crougey part continues to open up remarkably well, and from the present appearance of the several points in operation we shall shortly have a good mine.

NORTH CROFTY.—J. Vivian and Son, W. Thomas, March 12: The lode in the 220, west of Petherick's shaft, is 4 ft. wide, composed of spar, peach, mundic, and thu, and is worth 54. per fathom. The lode in the stope in the bottom of the 28, west of No. 2 winze, is worth 104. per fathom. The lode in No. 3 winze, sinking under the 208 west, is worth 104. per fathom. The lode in No. 3 winze, sinking under the 208 west, is worth 104. per fathom. The lode in the 170 west is worth 64. per fathom. No other change.

NORTH POOL.—W. C. Vivian, F. Clymo, March 12: We have intersected another small metalliferous vein in the 40 cross-cut, speckled with copper ore, and find the water still increasing as we advance, which we are pleased to observe, as we think it may indicate our near approach to the middle lode. If not the lode, which is near at hand, it must be the cross-course, and the striking of the latter would be of considerable advantage, as we should then make much more rapid progress towards the middle and old main lode than we have hitherto been able to do in the hard rock through which we have been driving.

NORTH TRESKERBY.—R. Pryor, T. Jenkin, March 11: The shaftmen are making good progress in cutting tip-plat in the 80. The lode in the 9 could be often in the 10 count in the

of silver-lead, but the weather is at present very severe here, and has been so all the week.

PEDN-AN-DREA UNITED.—W. Tregay, W. Prideaux, John Pej e, March 7:
Sump: The sinking is progressing moderately. In the 150 west end the lode (Martin's) is worth 20%, per fathom. In the 140 east pitch the lode (Martin's) is worth 40%, per fathom. In the 140 west end the lode (Martin's) is worth 15%, per fathom. In the 130 west rise the lode (Martin's) is worth 15%, per fathom.—Cobbler's: In the 120 west end the lode (Martin's) is worth 15%, per fathom.—Cobbler's: In the 120 west end the lode (Martin's) is worth 18%, per fathom.—In the 80 west end the lode (north) is worth 19%, per fathom.—In the 80 west end the lode (north) is worth 19%, per fathom.—In the 50 west end the lode (north) is worth 10%, per fathom.—In the 60 west end the lode (north) is worth 18%, per fundade's in the 81 km 18%, per fundade's in the 18%, per fundade's per fundade's

PEN HALLS.—8. Bennetts, W. Higgins, allowed the worth of the first but poor. The rise in the back of the 60 east is worth 6l. per fathom. The store is worth id. per fathom; the same level west 8l, per fathom: Two stopes over this level are worth respectively 12l, and 18l, per fathom; and another west of the great cross course is worth 12l, per fathom. The 30 east, on the north lode, is worth 6l, per fathom. A stope below the 48, at the 8hop shaft, is worth 10l, per fathom. All other points are without much change, further than the heavy drop in the profit in heavy drop in the profit in the affected them.

PENNERLEY.—W. T. Harris, J. Delbridge, March 11: Engine-Shaft: The lode in the rise in the back of the 130 fm. level east is worth 2½ tons of lead per fathom. The lode in the winze sinking below the 120 fm. level east is producing 2½ fms. dlead per fathom. The winze sinking below the 80 fm. level, on junction, is yielding some good stones of lead and blende, and the ground favourable for progress. The lode in the 70 fm. level east is 2 ft. wide, worth 1½ ton lead per fathom, and very promising for an improvement. In the cross-cut in the 80 fm. level what cut the hanging side of the lode; at present it is 2½ ft. wide, composed of carbonate of line and lead, worth of the latter 1 ton per fathom. The 40 cross-cut, driving north, is making good progress, and ground favourable.—Bland's Shaft. The lode in the 25 fm. level, the lode producing 1½ ton lead per fathom, and opening out good profitable stoping ground. We have commenced a new sope in the roof of this level, the lode producing 1½ ton lead per fathom.—Potter's Pft: The shaft is down 2½ fms. below the 55, and good progress is being made. The lode in the 55 fm. level west is producing rich stones of lead, and fast enging into the course of lead gone down in the level above. The lode in the 45, driving east, its producing 1 to 10 lead per fathom. The lode in the winze sinking below this level is worth 1½ ton lead per fathom. The lode in the rise in the back of this level is worth 2 tons lead per fathom. The stopes yield fair quantities of lead. Mine as for some time past.

PENSTRUTHAL CONSOLS.—W. Tesgue, March 11: In the Highburrow shaft, of iin has affected them.

The lode pENNERLEY.—W. T. Harris, J. Delbridge, March 11: Engine-Shaft: The lode pENNERLEY.—W. T. Harris, J. Delbridge, March 11: Engine-Shaft: The lode per falloment in the back of the 130 fm. level east is worth 2½ tons of lead per fallom.

and star, or explore Panty, old work from the is 2 feet e-saving her winze to push as to cut ave taken particular 1 Panty, sures for ee depart.

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include is fully a ft. which, and very designed in experiment, and will not fail to be promy digiplarore with it is the when properly developed. In the 22, criving cast of High-deadler for the fit of the interval in the little about 41, per fathom. We have such about 17 feet in Richardson's shaft through the side, which yet cross-cut, the lode is worthy of notice. In the 18 min to the little in the little

THE MINING JOURNAL.

THE MINING JOURNAL

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and an electric field that will effect a garding section we tree on in the direct. The properties of t

endless bands or chains without the building, and worked to any speed required. To the wire-rope at short intervals is attached what he calls a "traveller," carrying one peat on each side.

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15 horse power, in good condition: FIVE of Gwynne's PUMPS: 50 7-ton
TRUCKS, for earthwork and ballasting: 130 TILTING TRUCKS, of State gauge
and holding about 100 cubic feet; harness, traces, &c.; sundry tools and implements.
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STEAM ENGINE FOR SALE. A POWERFUL DIRECT-ACTION VERTICAL CONDENSING ENGINE, by RENNIE, 32 in. cylinder, 6 ft, stroke. It is in good condition, and may be seen at work. To be sold at a low price.

Apply to Mr. J. M. Drew, Bridge Mills, Silverton, Cullompton, Devon.

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↓▼ I. in connection with personal security; also, LOANS for carrying out ontain fide undertakings.

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Advertising Agent, Liverpool.

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Description:

Advertising Agent, Liverpool.

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Description

Descript

Coal and Iron in the United States.—During the year ending Nov. 30, 1873, the Eastern (Massachusetts) Railroad Company laid 2392 tons of iron rails, and 2507 tons of steel rails. On the main line between Boston and Portsmouth the company has now 43 miles of steel rails. The total receipts of coal at Pittsburg, Pennsylvania, last year were 115,055,146 bushels, a total showing a decrease of 8,518,807 bushels as compared with 1872; the total receipts of coke were 34,236,500 bushels, against 43,927,965 bushels in 1872. The production of coal on the Pacific Coast of the United States is increasing; the Mount Diablo Mines have averaged 175,000 tons per annum for two years past. Beseemer steel rails are now manufactured at eight establishments in the United States, and the annual production can be carried, if need be, to 200,000 tons. The coal extraction of Pennsylvania thus far this year exhibits a decrease as compared with the corresponding period of 1873.

LEAD MENES IN WALES (Montromeryshire).—At the Van Mine

LEAD MINES IN WALES (Montgomeryshire). - At the Van Mine, in the 75 cross-cut, so far as seen the lode is very rich, which is a most important feature for the future of this mine. At the Dyliffe Mines, some six miles from the Van Mines, a most important discovery has been made this week on what is called the Esgairgaled lode, which very much resembles the Van lode. The Dyliffe Mines are opening out well, and bid fair to resume at no distant period their excellent profits and good dividends to the shareholders. Now that their dressing-floors are being put in good order their present returns of 80 tons monthly will soon be increased to 100 and 120 tons, and gradually increased. This mine may be considered one of the best lead mine investments of the day at the low price of 6l. to 7l.

CAPT, POLGLASE, who recently resigned the management of the Great Laxey Mines, has been appointed the manager of the Caldbeck Fells Consolidated Lead and Copper Mines, Cumberland. Previous to Lis leaving for his new destination, the Laxey Miners presented to him Dr. Adam Clarke's "Commentary," in six volumes, handsomely bound in Morocco; a pocket Bible, and Wesley's Hymns, in one handsome volume; a massive gold penell case and pen, &c., in admiration of his mining abilities, of his love of fair play, and his manly conduct amongst us. Not only do we as a body of miners highly respect him, but he has won the esteem of the parish, and also the inhabitants of the Island, so far as he is known. We, therefore, heartily wish him every success in his new undertaking.—LAXEY MINERS: Laxey, March 3.

HANDBOOK OF PRACTICAL TELEGRAPHY.

There can be but little new to state by way of eulogy with respect

HANDBOOK OF PRACTICAL TELEGRAPHY.

There can be but little new to state by way of eulogy with respect to a work which, like Mr. Culley's, has already reached its sixth edition; and in estimating its present value it will suffice to state that it has been so revised and enlarged as to embrace a full record of the progress made in the art of telegraphy up to the date of publication. The object of the volume* is to furnish information to members of the telegraph service, and to others interested in telegraphy, concerning the electrical laws upon which the system depends, the methods of discovering faults, the practical management of apparatus, the construction of a line, and the leading principles of submariae telegraphy. The author states that he has attempted, and there can, we think, be no question as to the success of the attempt, to supply in some measure that technical knowledge which has hitherto been attainable only by means of verbal instruction or actual experience; and with a view of rendering the work more acceptable to practical men, he has purposely avoided scientific terms and formulae, expecially in the carlier portion of the work, and elsewhere when it has been possible to express his meaning without their use.

By way of introduction, he gives a brief, yet interesting, sketch of the history of the system in this country. The electric telegraph was introduced by Cooke and Wheatstone, whose first joint prient was granted in 1835, in which year the earliest demonstration of the practicability of the system was made by the establishment of an experimental circuit by twee Enston square and Canden town, on the London and Birmingham Ruilway. The first actual working telegraph was erected in 1835 between Paddington and West Drayton, on the Great Western Railway. Cooke and Wheatstone's patients were purchased by the Electric and International Company, of which Mr. John Lewis Ricardo was the Chairman, and in 1846 the company, of which Mr. John Lewis Ricardo was the Chairman, and in 1846 the company, of whi

with the art of telegraphy.

GAH in Dook of Practical Tel graphy. By Mr. R. S. Culley, M.Inst.C.E.
Engineer in Catefor Telegraphs to the Post Odke. Sixth edition. Revised an
enlarged. London: Longorus, Green, Reader, and Dyer, Paternoster row.

New Encavator.—Mr. R. Stone, of Liverpool, has patented an improved pick excavator and discharging elevator for excavating for foundations, surfacing roads, excavating clay, and, soil, and other like substances. A pick excavator and discharging elevator, according to this invention, consists of a circular disc, or discs, which are cavried on a shift mounted in suitable hearings carried on a truck or wheeled trune. The disc or discs are so mounted that they will revolve freely, upon suitable power being spoiled. The discs are disted with tailal slots or guides; in these slots or guides are sliftly weights, or metal blooks, so arranged that picks, by le, or civie's any less are so an adhervise at telled thereto. These weights and picks are so oranged that wheeled framework, and immediately belief they fold down the stiles or slots in the disay wheeled framework, and immediately belief the remaining the same truck or wheeled framework, and immediately belief the remaining the same truck or wheeled framework, and immediately belief the remaining the same truck or wheeled framework and increased the same into a cut, or truck, inmediately behind the pick over whose these are constrained that they will work at banks or or road surfaces, as may be required; also the pick or we down the weights on the disease are so arranged that they can be removed for sharpening by merely unserewing or etaching the same from the weights. The apparatus is driven by a suitable system cog wheels or straps and pulleys.

** With this week's Journal a SUPPLEMENTAL SHEET is given, which contains—Original Correspondence: Mining Monopolies (H. Nasmyth); Mining in New South Wales (R. Adams): Gold Mining in New Zealand (G. F. Hosking); Colorado Mines as a Field for Investment (J. Schamel); New Quebrada Mining Company (J. Thompson); Lake Superior Copper Mines; Mining at Lake Superior; Lead Mining in Wales—the Machynleth District; Observations on Mining (R. Knapp); N. Ennor on Line Formation: Miners' Pay—the Thirteen-Months System: Remarks on the Correspondence in the "Mining Journal;" Legitimate Mining; Perran Consols Mine (W. Ward); Eldorado Gold Mines; Nova Scotia Gold Mining—Dyliffe Mining Company—Foreign Mining and Metallurgy—The Quick-silver Trade, &o.—Meetings of the Grogwinion, Tretoil, Cariggan Rock, Monnt Dalby, Kirk Michael, Trampet Consols, Darlington Iron, Bagworth Colliery, Imperial Brazilian Collieries, New Dolcoath, South Cleveland Ironworks, Crenver and Wheal Abraham, and Blinman Companies.

The Mining Market: Prices of Metals. Ores. &c.

METAL MARKET-LONDON, MARCH 13, 1874.

	COPPER. & s. d. & s. d.	IRON. per ton. & s. d. &	8.	d.
J	Best selectedp. ton 88 0 0-90 0 0		-	
3	Tough cake and tile. 86 0 0-88 0 0	Do., to arrive	15	0
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	Bottoms 97 0 0- 99 0 0	Bars ,, ditto12 10 0-13	0	0
	Old 85 0 0	Hoops,, ditto13 15 0-15	0	0
	Burra Burra 87 0 0-88 0 0			-
	Wireper lb. 0 1 034	Hoops, ditto12 15 0-14	0	0
1	Tubes 0 1 0½-0 1 1	Sheets, single, & plates 14 0 0-15		0
		Pig No. 1, in Wales 5 0 0-6		0
	BRASS. , per lb. 10d11d.		0	0
	Sheets 10d11d.		0	0
	Wire 101/d	Do., mrch. Tyneor Tees 11 0 0-11		ő
۱	Tubes11¼d11¼d.		0	0
ı	Yellow metal sheathing 81/4d83/4d.		0	0
1	Sheets 8d	To arrive		
1	SPELTER. per ton.		5	
ı	Foreign on the spot., 23 10 0-	Do., f.o.b. Tyne or Tees 4 10 0- 5 1		
ł	to arrive 23 10 0-	Do., Nos.3,4, f.o.b., do. — -	10	U
1	,, to arrive 25 10 0	Railway chairs 5 0 0- 5		0
ĺ	ZINC.	spikes12 10 0-14	0	0
ı	In sheets 30 0 0-31 0 0	Indian Charcoal Figs,	U	U
1	QUICKSILVER (p. bot.) 19 15 0	in London, p. ton10 0 0-12	0	0
ł		In London, p. ton 10 0 0-12	U	U
ı	TIN.	STEEL. per ton.		
١	English blocks £ 98 0 0- nom.	Swed., in kegs (rolled) — per ton	_	
1	Do., bars (in brls.) 99 0 0- ,,	Ditto (hammered)20 10 0-21	0	0
ı	Do., refined 100 0 0-	Ditto, in faggots21 15 0	-	
1	Banca 103 0 0- "	English, spring23 0 0-25		0
1	Straits 91 0 0- 94 0 0			
1	TIN-PLATES.* per box.	English Pig, com21 15 0-22		
1	IC Charcoal, 1st qua. # £1 17 0- 1 19 0	English Pig, com 21 15 0-22	0	0
ı	IX Do., 1st quality 2 3 0-2 5 0		-	
1	IC Do., 2d quality 1 15 0- 1 17 0		-	
1	IX Do., 2d quality 2 1 0-2 3 0	Ditto, sheet24 0 0-24	5	0
1	IC Coke 1 9 0-111 0	Ditto, sheet24 0 0-24 Ditto, red lead23 10 0-23 1	5	0
1	IX Ditto 1 15 0- 1 17 0	Ditto, white30 0 0-32	0	0
١	Canada plates, p. ton., 19 0 0		0	0
ı	Ditto, at works 18 10 0	Spanish20 10 0-21	0	0
		less. † Add 6s. for each X.		
1		w tin-plates of similar brand.		

REMARKS. - The general condition of the trade remains unaltered, and business in every department still continues very limited. Prices generally have not undergone much fluctuation, but in some few instances slight deviations have occurred. Speculation for a few instances slight deviations have occurred. Speculation for a rise is only entered upon in very exceptional cases, and operations of a speculative character are mostly connected with the probability of lower prices ruling. So far as it is possible to form an opinion, it would seem that this is the most likely result. The price of fuel is on the decline. Buyers show a strong determination not to enter upon any fresh engagements that can be avoided, except at very considerable reductions; and as these reductions are chiefly based upon the prices realisable abroad, it would seem reasonable to suppose that manufacturers must sooner or later submit to such concessions as shall meet the requirements of consumers in general, and shippers to foreign markets in particular.

COPPER.—The market, which closed firm last week, opened with a firm appearance on Monday last, and business was done in Chili

in particular.

COPPER.—The market, which closed firm last week, opened with a firm appearance on Monday last, and business was done in Chilibars, g.o.b., at 78t. 10s. cash, 78t. 5s. one month, and 79t. 10s. three months' prompt. Wallaroo changed hands at 88t. net cash. The Swansea Ticketing was reported on Tuesday: 1000 tons ore sold at an average price of 14s. 10td. per unit for 20th per cent., and Capeores 15s. 5t. The market for Chili bars was firm and active. For cash parcels, g.o.b., from 78t. to 78t. 15s. was given, and Wallaroo was sold at an advance of 10s. over the price of the previous day. On Thursday there was a still further improvement, and g.o.b. changed hands at 79t. cash, 79t. 10s. six weeks, and 80t. three months prompt. Wallaroo, 88t. 10s. to 89t., and Burra 87t. 10s. Yesterday, the market maintained the firmness of the previous days, and Chili bars sold-g.o.b., cash, 79t. and 79t. 10s., also 80t. three months. Picked brands, 80t. cash; wallaroo, 88t. 10s. cash, and 10th tons, of which 900 tons are Chili bars and the remainder, with the exception of 20 tons Burra copper, are Wallaroo. The business at present doing in copper appears to be sufficient to keep the market steady, but beyond this there does not appear to be any feature in the market to lead to the conclusion that any in ortant advance in price is likely to occur. There is certainly no pressure to sell, but from the amount of business reported during the past week, it may be gathered that there is no great desire to bay, and until there is a general resuscitation in trade it is not probable that much improvement may take place. Yellow metal remains at previous quotations. Some few orders have been executed during the week for India.

IRON.—There is no reason to expect that there will be any altera-

trade it is not probable that much improvement may take place. Yellow metal remains at previous quotations. Some few orders have been executed during the week for India.

IRON.—There is no reason to expect that there will be any alteration in the state of the iron trade until the end of the first quarter of the year, which is now close at hand. Nothing could have been more disappointing and delusive than the hopes which at the close of 1873 were entertained regarding the resuscitation of the trade during the early weeks of the new year. Indeed, as the present year advances, the expectations of improvement seen to recede. The one chief cause of this protracted period of inaction is, doubtless, attributable to the high prices which have persistently ruled so long. Business, it is true, has been done, and business is now being transacted day by day, but not upon a scale of any magnitude. Buyers can only be found to come forward just to such an extent as to meet requirements which can brook modelay; but so soon as prices are re-adjusted upon what appears to intending purchasers a more satisfactory basis business will once more revive. It is not that the demand for iron for the various purposes to which this metal is applied is less than heretofore, but that the existing demand is kept in abeyance because of the impracticability of paying the prices asked. The gradual fall in the price of coal which has been noticed of late has already exercised an appreciable effect upon quotations, but not to such an extent asto influence buyers to come forward more freely. Coal may still find a lower level, and thus enable smelters to sell pig-iron at lower rates than those now current. But this of itself will not suffice—there must be a re-adjustment of wages, as well as in the cost of fucl, and when this is accomplished manufactured iron may be sold atsuch a price as shall bring about the desired activity.

The report from the North of Enghand is tot the effect that the publication of the ironmasters' stock returns has tended r ments abroad during the past month did not amount to 10,000 tons, and show is decrease of 14,305 tons, as compared with those of February, 1873. The deliveries for Scotland are still on a larger scale than formerly, and show an increase of 6000 tons nearly over the similar period of 1873. All descriptions of finished iron are dull of sale. This is said to be in some measure accounted for by the competition of the Belgian and Welsh makers, who are said to be prepared to undersell to the extent of loss, to lise, por ton; but inasumelt, as in Wales at all events similar complaints are made, it seems that a general slackness in demand is the cause of the almost uniquersal dulness which prevals. The market for Scotch pig-iron opened quiet on Monday, and business was done from 94s, down at 91s, 64., at which prices the market closed. A still further decline marked the course of the market on Tuesday, the lowest price of that day being 88s, 94., closing with buyers at 89s, per ton, and sellers 3d, per ton higher. Wednesday's market was irregular, opening at 88s, 34, and advancing to 91s, 64, and closing at 91s. On Thursday the market was that the smillamount of business which transpired showed a slight advance in quotations, the closing price being 92s. To-day the market has been firm, and business done up to 92s, 94.

881PMENTS.
Week ending Mar. 8, 1873 Tons 12,124
Week ending Feb. 7, 1874 8,664

Decreise 8,664

Total decreise since Dec. 25, 1873 31,508

LEAD remains unaltered, good soft English pig being quoted at 214, 15s. to 224.

21l. los. to 22l.

QUICKSILVER is firm at 19l. 15s. per bottle, at which price transactions of some importance have taken place.

TIN.—The market for Straits has been steady throughout the week, and prices are firm at about 9ll. cash and 9ll. for distant arrival.

TIN-PLATES are not in much demand. IC Coke stands unaltered

Messrs. Vivian, Younger, and Bond.—Since our last issue prices of Copper have advanced for Chili bars about 20s., and for Australian copper about 10s., per ton, but the business done has been only limited, and consumers continue to buy sparingly, and only to cover their immediate wants. We estimate the sale for the week at about 1000 tons of Chili bars and 300 tons of Australian. Good orinary brands of Chili bars have sold at from 78.4 up to 79.4 cash, and at 78.5 s. to 30.4 with prompt, while a small lot of picked brands were sold at 504. cash, will alroo changed hands at from 89.4 to 88.1 0s. cash, and at 90.4 cash, will alroo changed hands at from 89.4 to 88.1 0s. cash, und at 90.4 with three months prompt. Burra having realised 87.1 0s. cash. There is only a small demand for manufactured copper, which has been checked by the makers asking higher price than they were willing to accept a week ago. Altogether, though the price of ray copper had advanced a little, the reports from manufacturing districts are so dult that the prospect is not considered encouraging.—Th's further declined, as 92.1 los. was accepted for Straits; but there is a slight rally, and about 50 ton have changed hands at 94. cash. For forward delivery, however, business has been done at 90.4 los. for shipment by steamer, March-April and May; and with the leavy quantities coming forward, it is probable that the recent advance will not be maintained.

Messrs. Henry Rogers, Sons, and Co.—There have been some con-Messrs. Henry Rogers, Sons, and Co.—There have been some considerable purchases made during the week, both on the spot and for two and three months forward, and the tone of the market generally has improved; consumer, however, have bought as yet but sparingly, and principally of English, which has ruled cheaper than fine foreign. There is very considerable indisposition shown the part of importers and holders generally to realise even at the 20s. advance that quotations show; the feeling being that copper is too cheap now considering in position; at the same time buyers are not very eager to pay higher prices. The market may be considered very sensitive, rather than very buoyant.

The MINING SHARE MARKET continues quiet, and there is very little change to notice since last week's report, either in the way of quotations or in business transactions, beyond the fact that a slightly better feeling prevails; and on Friday, notwithstanding the settlement of the fortnightly account, a demand arose for two or three mines at advanced prices. Those chiefly dealt in have been South Frances, Van Consols, Cook's Kitchen, Penstruthal, West Chiverton, Pennerley, Wheal Crebor, Tankerville, West Tankerville, Dolcoath, East Lovell, Old Treburgett, and a few others.

A calculation has been made that during the last two years the mines of Cornwall have been depreciated in market value nearly two millions sterling; the names of 17 dividend mines alone are given, upon which the depreciation is 1,319,2834. And, as this has been caused partly through the importation of Australian tin, the simple question which many ask themselves is—Can this importation go on? The general impression among Cornishress is the constant of the co been caused party through the simple question which many ask themselves is—Can this importation go on? The general impression among Cornishmen is that at present prices it cannot, except at a great loss to importers, and that when the present stocks in hand are worked off the price must advance. When the Australian tin was first brought to this country it realised 91% to 94%, per ton, and now the best ore only fetches 57%, per ton; and this price for the best, and a much lower one for inferior qualities, entails a serious loss. There is, then, some hope

it realised 91*l.* to 94*l.* per ton, and now the best ore only fetches 57*l.* per ton; and this price for the best, and a much lower one for inferior qualities, entails a serious loss. There is, then, some hope yet for those Cornish mines that are able to pull through the present times; and the market, thoroughly weeded of weak concerns, will offer great bargains for investors.

Dolcoaths are 32½ to 35; Carn Brea, 22½ to 27½; Cook's Kitchen improved to 6 to 7; Tincroft, 24 to 26. East Lovell, 10½ to 11; at Tregonebris part of sett the lode in new engine-shaft is worth 15*l.* per fathom; at Fatwork the lode below the 100 fm. level nere looked better. The present returns of tin are 3 tons weekly.

North Roskear adventurers finally decided, at the special meeting on Thursday, to sell the mine and materials, and wind-up the affairs of the company. Mr. T. T. Whear was instructed to offer the property by auction on March 25, and thanks were voted to Messs. Pendarves and Enys, the lords, for their kindness and liberality during the working of the mine. At the Wheal Seton meeting, held here on Thursday, it was resolved, in consequence of the stoppage of North Roskear, to offer the mine for sale as a going cocern, and to wind it up. The present returns of tin are 10 tons per month, and the loss 200*l.* per month. East Pool, 4½ to 5; at the meeting here the accounts presented showed a profit in two months working of 81*l.* 10s. 2d., and a balance of 103*l.* 3s. 1d. against the adventurers. This, it is presumed, is irrespective of the "suspens account," of which nothing is heard now, but which is supposed to be a heavy debt in abeyance. The tin sold and credited in this account, and the loss prosent weekly of the suspens account realised 3389*l.* 0s. 5d. Trumpet Consols, 1 to 1½; at a special meeting held at this mine a call of 2000*l.*, or 10s. per share, was made, and the tin in hand (40 tons) was stocked for a better price. At present price it would not pay costs. The mine is reported to have improved in the 173 west,

of Glover's winze, 40L per fathom; the 72, south of Corfields 9 tons of lead per fathom.

Crenver and Wheal Abraham accounts show a loss on six months working of 49394; the ores sold in that time realised 66521; the costs were—labour 70601, materials 45311.; the balance of assets in favour of the company—taking credit for tinstone unsold, 8751.—is 67221. West Tolgus have been rather enquired for in Cornwall st 20 to 22½; the lode in the bottom of the mine is said to be turning out 17 tons of copper ore per fathom. Bog, § to ½; Old Treburget, ½ to 1; Great Laxe, 11 to 12; Pennerley, ½ to 1; Great Laxe, 11 to 12; Pennerley, ½ to 1; Strikins Beach, ½ to ½; Rookhope Valley, 17s. 6d. to 11.; the accounts of this company show a balance of assets over liabilities of 48951, 12s. 8d., charging up costs to January last; the ores sold from commencement of the company have been 335 tons of lead ore, at an average of 131. 12s. 5d. per ton. or 45624, 10s.; the monthly costs and merchants bills 12,8354, 12s. 2d., dues 5861, 6s. 10d., directors' fees 8751. London office 3871. 10s. Capt. Arthur Waters is of opinion that if worked energetically the mine will prove remunerative to the company. Plynlimmon, § to §; Prince of Wales, § to §. Hingston Down, 20s. to 25s; this mine continues productive for copper, and is about meeting costs.

Wheal Crebor 29 to 3: 50 tons of the ore now sampled yields the

20s. to 25s; this mine continues productive for copper, and is about meeting costs.

Wheal Crebor, 2\(^3\) to 3; 50 tons of the ore now sampled yields the high produce of 10\(^1\)_—the best ore ever yet raised from the mine. South Roman Gravels, \(^3\) to \(^3\); one of the reasons for raising fresh capital here was the erection of a more powerful pumping-engine, though it was expected the small one then at work would enable the lode to be cut into at the 20 fm. level, below adit, so that its character and future prospects could be seen. This was done some weeks ago, and the lode has proved to be large, and of the most favourable character for the production of large quantities of lead in depth. The water, however, has increased, as expected, beyond the power of the portable engine, and the directors have decided of putting up another at once. This may take three or four months by accomplish, but the delay has been well accounted for in the knowledge gained beforehand of the valuable character of the lode in the 10 to 10 t 20, and the low price of engines; and, in the meantime, the cross-cut is to be pursued towards the Roman Gravels lode. Dylift, 6½ to 7; the mine sold 80 tons of lead this week, at 124, 15s, 6d,pet ton, and a good discovery reported at the Esgairgaled lode, worm from 30% to 40% per fathom. Van Consols have advanced to 4½, 5; the lode in the 15, east of Gundry's, is 15 ft. wide, worth 6 tons of lead ore per fathom. The winze is worth 7 tons per fathom. Perstruthal, ½ to ½; the lode at Highburrow shaft, below the 22, is worth 20% per fathom for tin. South Frances shares have advanced to 11, 13; the lode in the 124 cross-cut has been met with, and, as far as seen, is worth at the present price of tin 25% per fathom. ton, and a good discovery reported at the Esgairgaled lodd far as seen, is worth at the present price of tin 25t. per fathom. Bedford United, 20s. to 25s.; the lode in the midway level maintains its value, and there is every prospect of returns meeting expenditure after the coming meeting. Tankerville shares have majorrille. 84, 9; Van. 30 to 32½; West Chiverton, 4½ to 5½; West Tankerrille, 1½ to 2; Wheal Grenville, 3 to 3½; Wheal Kitty (St. Agnes), 7 to 8; West Expair Lle, 21, 22.

1\(\frac{1}{2}\) to 2; Wheal Grenville, 3 to 3\(\frac{1}{2}\); Wheal Kitty (St. Agnes), 7 to 5. West Esgair Lle, 2\(\frac{1}{2}\) to 2\(\frac{1}{2}\).

Among Foreign Mines—Chontales, \(\frac{3}{2}\) to 1; Don Pedro North del Rey, \(\frac{3}{2}\) to \(\frac{3}{2}\); Emma, 1\(\frac{1}{2}\) to 2\(\frac{1}{2}\); Flagstaff, 2\(\frac{3}{2}\) to 3; Last Chance, 1\(\frac{1}{2}\); Tocoma, \(\frac{1}{2}\) to 1; Birdseye Creek, 3\(\frac{1}{2}\) to 3\(\frac{1}{2}\); Sweetland Creek, 4\(\frac{1}{2}\) to 5; Cedar Creek, 2 to 2\(\frac{1}{2}\). Rio Tinto, 6\(\frac{1}{2}\) to 6\(\frac{1}{2}\); the general manager in Spain reports that the railway is making rapid progress; 2000 men are at work upon it, and he urges that the sleepers and iron bridges should be sent out. They have 15 kilometres ready to be laid, and good progress is being made at the mine in removing the overburden at the rate of 300 cubic metres per day. The pro-

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duce from precipitation is not less than 100 tons of rich precipitate the per month, yielding 70 to 75 tons metallic copper.

The Market for Mine Shares on the Stock Exchange during the week has been moderately active. Home lead mines have been the week has been moderately active. Home lead mines have seen a start of the week has been moderately active. Home lead mines have seen at a start of the week has been and sweetland Creek. Other American descriptions it would be a start of the week has been contractively neglected, with the exception of Emma, have been contractively neglected, with the exception of Emma, have been contractively neglected, with the exception of Emma, have been contractively neglected, with the exception of Emma, have been contractively neglected, with the exception of Emma, have been contracted in the progress has, as usual, somewhat checked new business, and its progress has, as usual, somewhat checked new business, and its progress has, as usual, somewhat checked new business, and its progress has, as usual, somewhat checked new business, and its progress has, as usual, somewhat checked new business, and its progress has, as usual, somewhat checked new business, and its progress has, as usual, somewhat checked her average yield it was a serious of experiments upon the ores produced an average of less a serious of experiments upon the ores produced an average of less as a serious cent., in thereto it has been supposed the average yield it was a said to be progressing in an unsatifactory manner, if, indeed, they are not entirely stopped.

The Metal Market generally has been more active, but business in but little demand. Lead steady. Spelter inactive.

Emma shares have been steady, at 2 to 2½, low prices attracting purchasers; an influential syndicate is in course of formation, who purpose qualifying as shareholders two or three accredited practical experts who are to inspect and report upon the mine, so as to a determine its real position and prospects. A private letter, dated a special

in healt of the company, and the time for opposition is a pased. Utal, \$1 to \$1 \times 1, \$1 \ti

duce from precipitation is not less than 100 tons of rich precipitate per month, yielding 70 to 75 tons metallic copper.

The Market for Mine Shares on the Stock Exchange during the week has been moderately active. Home lead mines have been atirly supported. Van and Roman Gravels have found buyers at a fairly supported. Van and Roman Gravels have found buyers at quotations. Hydraulic mine shares remain in steady request, especially Birdseye and Sweetland Creek. Other American descriptions have been comparatively neglected, with the exception of Emma, Richmond, and Eberhardt, in which a good deal of business has been transacted; as to Emma, the price has been steadier than for some time past. The fortnightly settlement was concluded yesterday and its progress has, as usual, somewhat checked new business.

In Foreign Mines, the chief feature of the week has been the unstainanger, has been received by the directors, wherein he states that manager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that ansager, has been received by the directors, wherein he states that an offic

35 to 35; West Esgair Lie, 2% to 2%; Blue Tent, 5 to 3%; Holcombe Valley; 3/ to 1.

COLLIERIES.—A fair amount of business has been transacted during the week, and quotations have been well maintained, closing in some cases higher. The following have been in most request:—Welsh Freehold Coal, Chapel House, United Bituminous, Darlington Iron, Cardiff and Swansea United Bituminous, New Sharlston, Newport Abeream, Ebbw Vale, Pelsall, Silkstone and Dodworth, Silkstone Fall, West Mostyn, and a few others. The meeting of the Wellington Coal and Iron Company is called for the 19th inst., when a dividend at the rate of 12½ per cent., carrying forward 1612,, will be recommended by the directors. For the half-year ending Jan. 24 the books show a net earning of 7352/2, equal to 15 per cent. on the whole paid-up capital. This result in the face of a partial reconstruction of the company is very satisfactory. The remainder of the share capital—5978 shares of 10/c each—will now be offered preferentially to the shareholders. At the Imperial Brazilian Collieries Company meeting on Wednesday the special resolutions passed at a previous meeting were confirmed. Cardiff and Swansea Colliery shares are somewhat lower, consequent upon the decline in the price of coal, and they have been selling at about 8s. to 10s. discount. Newport Abercarns are also depressed, a call of 1/c being payable at the commencement of next month. West Mostyn shares have been in demand. The output, we understand, is increasing weekly. New Sharlston, 11 to 13; Bowling Iron, 75 to 80. Chatterley Iron, 45 to 50; the reports just issued show that the balance of net profits is sufficient, after payment of the preference dividends, to admit of a dividend of 12½ per cent. on ordinary shares, carrying upwards of 20,000/. forward.

Bolckow Vaughan, 29 to 31; the annual meeting will be held on the 24th inst. The directors in their report recommend dividends which will make 7/l. 11s. 8d. on the 4 shares for the year, and 6/l 10s. on the B shares. After placing 130,000

ORES, &c.

I BUY at the highest prices:— LEAD ORES.—LEAD-SILVER ORES.—SILVER-LEAD ORES. SILVER-LEAD.—HARD LEAD.—ANTIMONIAL LEAD. GOLD AND SILVER ORES.

ZINC AND LEAD ORES MIXED TOGETHER.

Particulars by letter. ARMAND FALLIZE, Ingénieur, à Liége (Belgium)

CAPPER PASS AND SON, BRISTOL,

ARE PURCHASERS OF ANTIMONIAL LEAD, HARD LEAD, LEAD MATTE, LEAD SLAGS, SULPHATE OF LEAD, LEAD ASHES, COPPER SLAGS, COPPER RE-GULUS, TIN ASHES, ZINC ASHES, SPELTER DROSS, HARD SPELTER and MIXED METALS, DROSS or REFUSE containing COPPER, LEAD TIN, or ANTIMONY.

Mr. JOHN HENRY POOLE,
MINERAL AGENT,
LIMPIAS, PROV. SANTANDER, SPAIN.

FOR AMERICAN COMPANIES.

R. F. CAZIN. MINING AND CIVIL ENGINEER,
Constructor of the Mineral Dressing Works at Rosa Clare, Hardin Co.,
Illis., and at Frumet, Mo.,

PATENTEE OF CAZIN'S CONTINUOUS ORE-PLUNGER JIG (ORM SEPARATOR.

MANUFACTURER OF ORE-SEPARATING MACHINERY.

Makes Plans and Contracts for Or Concentration and Smelting Works, guarantee to work certain quantities at less primitive and running expenses, with better proportionate yield, than any offered on the North American Continent. GENERAL AGENCY FOB THE SALE OF AMERICAN FLUOR-SPAR. Expertising, Surveying, and Reporting concerning Mines and Mineral Lands (Compare this Journal, Nos. 1932 and 1945.) Direct letters to—

GOLCONDA, POPE CO., ILL., UNITED STATES, AMERICA.

A R D E N A N D S O N,
MINING ENGINEERS AND GEOLOGISTS,
43. WALNUT STREET, PHILADELPHIA, U.S.A.

THE CAPE COPPER MINING COMPANY
(LIMITED).

Notice is hereby given, that at a MEETING of the directors of this company, held to-day, it was resolved:—
"That a DIVIDEND of TWENTY SHILLINGS PER SHARE, free of income tax, be now declared, payable on the 25th day of March instant; and that the Transfer Books be closed from the 18th to the 25th March, both days inclusive."
By order of the Board, J. C. LEAVER, Secretary.
6, Queen street-place, Upper Thames-street, London, 11th March, 1874.

THE RICHMOND CONSOLIDATED MINING COMPANY

The directors of the Riehmond Consolidated Mining Company (Limited) hereby give notice that, on and after WEDNESDAY, the 25th instant, the OFFICES of the COMPANY will be REMOVED to 44, COLEMAN STREET, E.C.

By Order, THOMAS WESTBERY HALL, Secretary.
Offices: 61, Moorgate-street, London, E.C., March 12, 1874.

THE MAMMOTH COPPEROPOLIS OF UTAH
(LIMITED).

HOLDERS of SHARE WARRANTS in the above company are hereby REQUESTED to SEND THEIR ADDRESS to the SECRETARY, in order that
they may have the option of snaring with the registered shareholders the advantages offered in the proposed issue of debentures, bearing interest at 20 per cent.
per annum.

By order, CHAS. WM. COOK, Secretary.

25, Moorgate-street, E.C., 14th March, 1874.

MR. R. PERCYROBERON,
60 ENGLISH STREET, CARLISLE.

M ESSRS. CAMERON AND CO., FINANCIAL AGENTS
AND SHARE BROKERS,
BRIDGE STREET CHAMBERS, CHESTER.

Date.	Mines.		lon	8.	Price	per	to	n.	Purchasers.
March	2-Lisburne-	Glogfach	15	*******	£18	3	0		Sheldon, Bush, and Co.
	-East Darre	n	50	******	. 17	6	0		
	-Cwmystwi	th	10		. 13	2	6		Burry Port Company.
	3-South Dar	ren	18		. 19	10	6		Treffry's Estate.
	9-Frank Mill	s	32		. 14	6	0		Burry Port Company.
	- ditto		13	*******	. 10	15	6		Nevill, Druce, and Co.
	- ditto		5		. 5	12	6		ditto
1	2-Plynlimme					0	0		ditto
	- ditto	********	20	*******	. 13	0	0		Walker, Parker, and Co
	-West Tank	erville	25		. 14	0	0		Runcorn Smelting Co.
	-Talargoch .		25		. 13	11	6		Adam Eyton.
						11			ditto
	-Prince Pat	rick	40		. 14	7			Walker, Parker, and Co.
	-North Hen					5			ditto
	- ditto		2		. 16	10			Adam Eyton.
	-Wagstaff .		23		. 12	11	6		ditto
	-Halkyn De					2	0		Walker, Parker, and Co.
	-Gorsedd &	Celvn	8		. 13	13	6		Adam Eyton.
	-Queen		5		13	18			ditto
	-Van					18			Walker, Parker, and Co.
	- ditto								Adam Eyton.
	- ditto		100		14		0		ditto
1	3-Tankerville								Nevill, Druce, and Co.
_									11, realising £1029.

			NDE.		
Date.	Mines.	Tons.	Price per	ton.	Purchasers. Kenrick and Son.
March	11-Talargoch .	150	. £ 3 10	6	Kenrick and Son.
	12 Van	100	2 0	0	Dillwyn and Co.

Feb. 28—Pedn-an drea... 9 16 2 0 ... 255 0 0 ... 4 540 7 6—Carvedra March 7—Wheal Kitty ... 5 16 1 25 ... 55 15 0 ... 313 0 5—Calenide. — Wt. Godolphin 8 16 0 2 ... 52 0 0 ... 457 13 0—Bolitho. 11—Penhalls ... 6 17 0 13 ... 53 15 0 ... 368 10 0—Daubuz.

 COPPER ORES.

 Date.
 Mines.
 Tons c. q. lb.
 Price per ton.
 Amount.
 Purchasers.

 March 5—West Godolphin
 7
 1
 2
 0
 ...
 £
 7
 8
 6
 ...
 £
 52
 10
 0
 -Nevill & Co.

 —
 ditto
 2
 3
 1
 0
 ...
 17
 15
 6
 ...
 38
 6
 0
 -Sweetland.

COPPER ORES.

Bampled February 18, and sold at Swansea March 10.

Cape Ore 64					Cape Reg 1		. 5434	£43	1	6
	28		8	6	ditto 23		47 3/8	36	19	6
ditto 61			5	6	Cape Ore 17		. 36	. 27	8	6
ditto 61				0	Berehaven 142	*****	. 8	. 5	4	0
ditto 61			6	0	ditto 86		774		1	0
ditto 35				6	ditto 85		7%			0
ditto 27	341/	26	7	0	Fursdon 54		35%	1	17	0
ditto 30	331/	. 25	11	6	ditto 13		8	5	5	0
ditto 34	3314	25	11	6	Bampfylde 50		934		10	
ditto 33	3034	. 23	10		Cop. Refuse . 37			1	16	0
ditto 25	511/4	. 39	4	0						
		TO	CAL	P	RODUCE.					
Cape	583 £12	.914	8	6	Bampfylde	50	£	825		0
amber annihilation	200			0	Common Dofuses	99.77		aa	19	•

COMPANIES BY WHOM THE ORES WERE PURCHASED.

 COMPANIES BY WHOM THE ORES WERE PURCHASED.

 Names.
 Tons.
 Amount.

 Copper Miners Company
 75
 £ 2,222 11
 0

 P. Greafeld and Sons
 49
 1,253
 3
 6

 Nevill, Druce, and Co.
 76
 1,342
 14
 6

 Vivian and Sons.
 430
 2,265
 7
 0

 Mason and Elkington
 61
 1,302
 7
 0

 Charles Lambert
 247
 5,267
 13
 0

 Sweetland, Tuttle, and Co.
 62
 1,592
 11
 6
 Total 1000 £15,046 7 6

Copper ores for sale March 31:—Cape (about) 700—Berchaven 255—Copper Ore 155—Ballycummisk 47—Concordia 34—Stanley Copper Mine 20.—Total, 1211 tons.

TOTALS AND AVERAGES.
21 cwts. Produce. Price, Per unit. Standard.
Whole sale ... 1000 2014 £15 0 0 14s, 10d, ...£ 95 12 0

COPPER ORES.

Copper ores for sale, at the Royal Hotel, Truro, on March 19—Devon Great Consols \$51—South Caradon 250—Wheal Crebor 160—East Caradon 145—Prince of Webs.

Clitters) 83—West Maria and Fortescue 60—West Caradon 50—Ambrose, Lake 8

Total, 3248 tons.

TO ARTESIAN WELL SINKERS, AND OTHERS.

THE LEAMINGTON LOCAL BOARD OF HEALTH are prepared to RECEIVE TENDERS for the WORKS required to be done in SINKING a SHAFT and BORING for WATER.

Plan and specification can be seen on application to the Borough Surveyor, Town Hall, Leamington, and any further information obtained on application to Mr. THOMAS DALE, C.E., Hull Waterworks, and Consulting Engineer to the above Board.

Oarded tenders, endorsed "Tender for Well and Boring," and enclosed under Sealed tenders, endorsed "Tender for Well and Boring," and enclosed under over, addressed to the Chairman of the Waterworks Committee, Town Hall, earnington, to be sent in or before Monday, the 23rd instant. The lowest or any tender not necessarily accepted. Town Hall, Leamington, March 9, 1874.

Actices to Correspondents.

* Much inconvenience having arisen in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal should be filed on receipt; it then forms an accumulating useful work of reference.

East Polberen Tin Mining Company (Limited).—Can any reader give mesome information respecting this company? It is said to have collapsed, although 25,000% was called up. Not a scrap of information has been furnished the shareholders from the first.—H. B.: Rotherhum.

New Process for Extracting Metals.—Can any of your readers oblige me with a few particulars of the new process for extracting metals from their ores spoken of by Mr. T. J. Barnard, as I can trace no patent in the office under his name as patentee?—X. B. Z.

SCALE FOR ADVERTISEMENTS.—Our charge for general advertisements is —for six lines and under, 4s.; per line afterwards, 8d. Average, 12 words per line.

AMERICAN SUBSCRIBERS .- In reply to several enquiries, it may be stated that subscribers in the United States can be supplied with the Mining Journal, post free, at the price of \$8 gold per annum, payable in advance, by remitting to Mr. D. Van Nostrand, publisher, and importer of scientific books, &c., Murray-street, New York; or, direct to our Office, 26, Fleet-street, E.C.

The TITLE-PAGE and INDEX to VOLUME XLIII., for the year 1873, was published in the Supplement to the Journal of Jan. 24.

THE MINING JOURNAL,

Railway and Commercial Gazette.

LONDON, MARCH 14, 1874.

THE NEW QUEBRADA COMPANY.

The ordinary general meeting of this company (reported in our columns last week) was characterised by the usual dissatisfaction and disaffection of the shareholders, arising principally from a fresh grievance—the constitution of their board.

When the Quebrada and Bolivar Companies were settling the con-

tract for the construction of the Bolivar Railway, the Quebiada directors acquiesced in an arrangement with Messrs. MATHESON and Co., the promoters of that scheme, that two of the Bolivar directors should have seats on the Quebrada board, and rice versa, thus having four with a duplicate interest on each board of six directors. This arrangement, without reservation, was injudiciously embodied in the contract, making it appear that the Bolivar Company had, as a right, the appointment of two of their directors on the Quebrada board. This, however, was ultra vives as between the directors who signed the contract and the shareholders of the Quebrada Company, signed the contract and the shareholders of the Quebrada Company, the 78th Article of Association providing that "any casual vacancy occurring among the directors shall be filled up as early as practicable by the board of directors, subject to the approval of the members at the next succeeding ordinary general meeting." The Quebreda directors could, and did, only bind themselves so far as the extent of their powers, regulated by the Articles of Association, and consequently the clause in the contract is rendered legally invalid, and is reduced to merely an undertaking on their part to recommend to the shareholders the above arrangement, which we purpose hereafter to demonstrate has been, and will be adverse to the pose hereafter to demonstrate has been, and will be, adverse to the prosperity of the company. They thus placed themselves in this dilemma, either to retain the Bolivar directors on the Quebrada board to the detriment of the company, and so fulfil, as it were, their moral obligation, or to promote and assist in their ejectment, and thus act solely and entirely in the interest of the company, for which purpose and who Coulorade shareholders entraised them with the adpurpose only the Quebrada shareholders entrusted them with the ad-ministration of their affairs. The shareholders certainly are in no way under any obligation to countenance the illegal and erroneous of their directors.

acts of their directors.

When the above arrangement was being made the Quebrada Company was in a state of prostration. For years it had been endeavouring to obtain a railway, knowing full well that that was the only lucrative means of transporting its ore, and thus getting a return on its capital. Through dissensions and differences of opinion the directors had several times failed in their endeavours, until at last they induced the influential firm of Messrs. MATHESON and Co. to entertain the scheme for the construction of a railway. They, wearied and sickened by the frustration of their former efforts, and still assailed by a section of dissatisfied shareholders, in over anwearied and sickened by the frustration of their former efforts, and still assailed by a section of dissatisfied shareholders, in over anxiety lest their project should again prove abortive, raised no objection to what appeared to them a question of minor consideration—the interchange of directors on the two boards, overlooking that their interest on many points would not be identical, that questions would arise requiring a decision adverse to the one or the other company, and consequently it would be expedient and right in the interest of each company that they should be discussed and decided by the separate and independent consideration of each board.

As an illustration of our remarks, Colonel Strange, the Chairman of the Quebrada board, also having a seat on the Bolivar directorate, towards the end of last year obtained two concessions from the

towards the end of last year obtained two concessions from the Venezuelan Government, and offered them to the Quebrada Company for nothing, conditionally that it should work and carry out the undertakings. It was, however, advised by counsel that the Memorandum of Association, which cannot at any time be legally amended or altered in the slightest degree, altogether precluded their acceptation. Whereupon the Quebrada board, consisting of three Bolivar and two Quebrada directors proper (Colonel Strange being absent) recommended, whether unanimously we know not being absent) recommended, whether unanimously we know not, that they should be offered on like terms to the Bolivar Company, so that there arose this anomalous state of affairs—that three Bolivar directors, in virtue of their having seats on the Quebrada board, and being in a majority and thus ruling the meeting, recommended the gift to themselves, as Bolivar directors proper, of two valuable concessions. The Quebrada Company had not and could not have at any time any interest whatsoever in them in consequence of the could accrue to the Quebrada by the Bolivar Company carrying out the concessions, and the dispute was solely and entirely one between the Bolivar Company and Colonel STRANGE. This recommenda-tion, therefore, was a great irregularity in excess of the duty of the directors, who had entrusted to them by the Quebrada shareholders only the administration of the affairs of the Quebrada and not the Bolivar Company. It was, however, for a reason we need not at present discuss, by the advice of the Quebrada solicitor thought prudent at the ordinary general meeting to expunge this recommendation from the directors' report.

Colonel Strange considered he was under no obligation to the

Colonel STRANGE considered he was under no obligation to the Bolivar Company to make a present of the concessions, and required payment. The latter then claimed as a right one of them, and in consequence of a threat of legal proceedings, and Messrs, MATHESON and Co., who are to a vast extent interested in the Bolivar Railway, declining to purchase or arbitrate, Col. STRANGE disposed of both concessions elsewhere, whereupon the Bolivar board had a Bill in Chancery prepared, and wrote to the Quebrada Company, inviting them to the become containtiffs, on the consideration of which at the them to become co-plaintiffs, on the consideration of which at the Quebrada board, consisting of the majority of the three Bolivar and two Quebrada directors proper (Col. STRANGE being requested by his colleagues to temporarily vacate his seat), this course of action

was decided upon, embodied in the following minutes of the board

book, which were read at the late meeting of shareholders:

"A letter was read from Messys. Bischoft and Bompas, stating that the counsel of the Bolivar Company advised that the Quebrada Company should be made co-plaintiffs with the Bolivar Company on the filling of a Bill in Chancery against Col. Strange with reference to the concessions granted to him by the Venezuelan Government.—The Chairman read correspondence between himself and Mr. H. M. Matheson in reference to the concessions, and stated he had no difficulty in disposing of the concessions on advantageous terms.—It was then suggested by Mr. Thompson that the subject should be discussed in the absence of Col. Strange, whereon that gentleman left the chair, which was taken by the deputy-Chairman, Mr. Learoyd.—At the request of the board, Messys. Bischoft and Bompas were sent for, and attended with the draft bill, to which the consent of the board was required.—Whilst it was being read and considered Col. Strange reentered the room, and resumed the chair, insisting on his right to do so in the interest of the shareholders, whereupon it was moved by Mr. Learoyd, seconded by Mr. Thompson, and unanimously resolved, that in the opinion of the board it would not be seemly or proper to pursue the consideration of the upstion in Col.'s Strange's presence.—Thereupon the Chairmanagain vacated the chair, first desiring his protest should be entered against the consideration of the subject in the absence of the company's solicitors, Messys. Eyre and Co.—The consideration of the bill was then resumed, and ultimately it was resolved that Messys. Bischoff and Bompas be instructed to a consideration in the filing of the Bill, and that Messys. Bischoff and Bompas be instructed to act for them in so doing, subject to their first receiving from the Bolivar Company an undertaking to hold this company free from liability to costs in connection with the suit."

We admit it was "not seemly and proper to pursue the consideration with the sour."

the suit."

We admit it was "not seemly and proper to pursue the consideration of the question in Col. Strange's presence," on account of his duplicate interest; but we fail to see how it was not so in the presence of the three Bolivar directors, who not only had such an interest, but had considered the question, and formed an opinion, as memest, but had considered the question, and formed an opinion, as members of the Bolivar board, that the Quebrada directors, including themselves, should, if possible, be induced to become co-plaintiffs. Mr. Thompson, one of the two Quebrada directors proper, commenting on the above views, previously expressed by a shareholder, observed "he thought there was some force in the suggestion that the two Bolivar delegates should have left the room with Col.STRANGE; the justice of such a course had not struck him at the time." We respect his candour and courage in acknowledging his error, but observe he mentions only two Bolivar directors, whom he properly designates as delegates. We, however, consider that all three should have vacated their seats, since they conjointly might, and did, discuss the question prejudiced in favour of the Bolivar interest. No doubt Mr. Thompson in future will exercise the same courage, and, when points arise affecting the two companies, will require the absence of Mr. Thompson in future will exercise the same courage, and, when points arise affecting the two companies, will require the absence of the Bolivar delegates. If he, seeing the justice of such a course, had succeeded temporarily in removing the Bolivar directors, in consequence of their duplicate interest, the consideration of the question would have been left to the two Quebrada directors proper, a number insufficient to form a quorum, and consequently the business of the company would have come to a dead lock.

Mr. Hemming, who was elected at the meeting of the company to a sent on the Onebrada board, gave as his opinion that the Bolivar

a seat on the Quebrada board, gave as his opinion that the Bolivar influence should be reduced; that there should be "not two members from each company upon the other's board, making four, and giving the preponderating influence of two-thirds over one-third, but that there should be two gentlemen who should be directors upon the two companies, thus having four independent members upon the Quebrada and four independent members upon the Bolivar board, if they so desire and wish;" and remarked that, in consequence of having only two independent members, "we have recently escaped from a serious collision;" and further stated, "it would be very hard to find that we were swamped by a more powerful introduction into our company." Thus Mr. HEMMING has, as it were, pledged him-self to use his best endeavours to reduce the Bolivar influence; and no doubt he will join with Mr. THOMPSON, if not in exerting himself for its total removal when points are raised affecting the two companies, at any rate for its mitigation. When intricate questions arise between the two companies, it would be advantageous that they should be discussed by more than three, the present number of independent directors, Col. STRANGE having announced his intention

independent directors, Col. Strange having announced his intention to resign, and for this reason we would suggest that the board be increased to the full complement of nine.

In the minutes of the board we observe that Messrs. Bischoff and Bompas, the solicitors of the Bolivar Company, "were sent for, and attended with the draft-bill"—the Bolivar Company v. Colonel Strange. There could be no objection to those gentlemen giving an explanation of its contents, but we consider that it would have been natural, and prudent to have called in the assistance of Mr. Eyrre, the Quebrada solicitor, and we approve of the conduct of Colonel Strange, in fulfilment of his duty to the shareholders, in protesting that the subject ought not to be considered in the absence of the company's solicitor. On a former occasion, when in the absence of Colonel Strange it was under consideration whether the Quebrada Company could accept one of the two—the steamer concession—the legal advice of Messrs, Bischoff and Bompas, not of Mr. Eyrre, was taken by the Quebrada board. The minutes relate that on the consideration of the Bill "ultimately it was resolved that Messrs, Bischoff and Bompas be instructed to request Mr. that on the consideration of the Bill "ultimately it was resolved that Messrs. Bischoff and Bompas be instructed to request Mr. Dave independently to advise the Quebrada Company whether they ought to join in the Bill." A shareholder (a solicitor) at the late meeting enquired who was to pay for Mr. Davey's advice; and, on being informed the Bolivar Company, he aptly remarked he failed to see how it could be called an independent opinion. We learn from the minutes that if Mr. Davey had advised that the Quebrada Company and the point in this Bill Mosers. Progression and Powers with the minutes that if Mr. DAVEY had advised that the Quebrada Company ought to join in this Bill, Mesers. Bischoff and BomPas, with great impropriety, were instructed to act as solicitors to the Quebrada Company. We draw your attention to the above facts in illustration of our opinion that the Quebrada Company, to its great injury, and in the language of Mr. Hemming, is swamped by the Bolivar

As further illustration of our remarks, a question involving a dif-ference of opinion has arisen between the Quebrada and Bolivar boards as to the ultimate or proportionate payment of 5000%, the cost of a concession from the Venezuelan Government, referred to cost of a concession from the Venezuelan Government, referred to in the late report of the Quebrada directors to the shareholders, and particularly entered into by Mr. Learovd, in his speech at the meeting of the company, reported in our columns of Saturday last, whereby it appears that in consequence of such difference of opinion having arisen, previous to the treaty for the concession, a resolution was carried at both boards that all questions between the two companies should be temporarily waived, that the concession should be applied for, both companies conjointly determining the price to be paid, and that afterwards the amount, or proportionate amount, should be paid on the basis of the advantage to each, and if any difference or question arose arbitration should ensue. Inasmuch as we perceive a difference of opinion has arisen between the two boards, involving a considerable payment, we think the discussion of a question of this considerable payment, we think the discussion of a question of this description could not be entered into with satisfaction to the Quebrada shareholders, except by those directors alone who have a single interest in the company, and we fail to understand why the Quebrada board advanced the 5000%, unless overruled by the Bolivar influence, as long as the payment thereof was an open question between the two boards. It would have been fair and equitable that

it should have been so advanced in equal shares pending the decision of points of difference. We have now illustrated the impropriety, and danger to the Quebrada shareholders, of the intermixture of the two boards, and, although we trust that no great injury has as yet accrued, it is impossible that such an administration of their affairs can continue without disunion, internal dissensions, and loss. Many most important questions, other than those we have mentioned, will arise, such as the supply of ore to the Bolivar Railway Company and the Many most imsuch as the supply of the to the Dorvar Annway Company and the purchase of the railway by the Quebrada Company, in accordance with the contract, which will require the serious consideration of the Quebrada board proper, apart from its Bolivar section, whose interests are not, or will not be, identical, but opposing, and we are at a loss to understand, and it is an anomaly, how gentlemen can first sit upon one company's board and vote in favour of the interest of that company, and then take their places on the board of the other and record their vates in its favour on conflicting questions. other and record their votes in its favour, on conflicting questions between the two companies—both of whose interest by accepting a seat on their boards they are bound faithfully to defend and promote. Quebrada shareholders, no doubt, will not quietly submit to this unseonable and incongruous state of affairs—Bolivar directors endeavouring to drag the Quebrada Company into a Chancery suit, in which it has not and cannot have any interest, employing the Bolivar solicitor to engage Bolivar counsel to give a Bolivar opinion, wrongly designating it an independent opinion. Moreover, there is one and the same secretary, in London, and agent, at Tucacas, for both companies. It is undoubtedly to the advantage and benefit of both companies that they should work in harmony, but we do not see how this panies. It is undoubtedly to the advantage and benefit of both com-panies that they should work in harmony, but we do not see how this can be possible unless there is a distinct and separate directorate

COAL IN NOVA SCOTIA.

The production of Pictou (Nova Scotian) coal in 1873 exhibited no progress as compared with 1872; but, on the contrary, it presented a decrease of some 60,000 tons. A disastrous accident at the Intercolonial Mines, in May, resulting in lamentable loss of life and Intercolonial Mines, in May, resulting in lamentable loss of life and serious destruction of property, prevented that company from meeting the large demands upon its production, and some pressure was put upon other local undertakings to make good this unfortunate state of affairs; but the ground lost through the calamity in question could not be wholly recovered. Of the Pictou coal raised last year 52,203 tons were exported to the United States. The Intercolonial Company, it may be observed, has resumed operations, and it is now in a position to meet orders on the opening of the navigations this spring. A fifth company, known as the Vale Coal and Iron Company, will also be in operation in the spring, so that if the demand for Pictou coal is well sustained a large increase in the production can be readily secured. From 1828 to 1858 the General Mining Association enjoyed a monopoly of all the minerals in Yore duction can be readily secured. From 1525 to 1505 the General Mining Association enjoyed a monopoly of all the minerals in Nova Scotia; but on the surrender of the monopoly of this undertaking in 1858 other companies were organised, so that at present there are five collieries at Pictou in full working order, and capable of producing, without very material additional outlay, 1,000,000 tons of coal annually. Until 1864 Pictou coal found a market almost entirely in the United States but it has not of late been in quites o much request among without very material additional and a market almost entirely in the until 1804 Pictou coal found a market almost entirely in the United States, but it has not of late been in quite so much request among the Americans, as it has become somewhat too dear. In the meantime, however, a demand for Pictou coal has been gradually growtime, however, a demand for Pictou coal has been gradually growtime, however, a demand for Pictou coal has been gradually growtime. time, however, a demand for rictou coal has been gradually growing up in the Canadian markets, partly on manufacturing account, and partly, and more especially, for recently inaugurated Canadian ocean steamship lines. The price obtained for Pictou coal at the shipping port last year was \$2 to \$3\frac{1}{2}\$, with duty and freight added; and, with a prospective increase in the demand for Pictou coal at home and in the West Indian and other foreign markets, to say nothing of the commantively high rates prevailing for coal in Growthing of the commandatively high rates prevailing for coal in Growthing of the commandatively high rates prevailing for coal in Growthing of the commandatively high rates prevailing for coal in Growthing of the commandatively high rates prevailing for coal in Growthing of the commandatively high rates prevailing for coal in Growthing of the commandatively high rates prevailing for coal in Growthing of the commandative high rates and the commandative high rates and the coal in Growthing of the commandative high rates are considered in the commandative high rates and the commandative high rates are considered in the commandative high rates are considered in the commandative high rates are commendative high rates are considered in the commandative high rates are conside thing of the comparatively high rates prevailing for coal in Great Britain, no material reduction in Picton quotations can be antici-pated. As regards Cape Breton coal, it was raised last year to the extent of 468,000 tons, of which 192,500 tons went to the United States, 241,500 tons to the British American Provinces, and 34,000 tons to the West Indies. Nearly the whole of the 192,500 tons of Cape Breton coal which went last year to the United States were inworted under contracts for the wantsecture of rate for set for which we

Cape Breton coal which went last year to the United States were imported under contracts for the manufacture of gas, for which purpose it can be used economically in connection with the coal of Pennsylvania and West Virginia. The American markets were well stocked with gas coal at the close of 1873; there, is, however, no reason to anticipate any material decline in the quantity of Nova Scotian gas coal required for the United States in 1874.

The principal Pictou coal mining companies are the Albion, the Acadia, the Nova Scotia, and the Intercolonial. The leading Cape Breton coal mines are the Sydney, the International, the New Glasgow and Cape Breton, the Lingan, the Caledonia, the Glace Bay, the Block House, and the Gowrie. In addition to the companies and mines just mentioned there are several smaller ones, the operations of which have presented only a local interest. The Spring Hill Mining Company in Nova Scotia commenced operations last summer. This undertaking has facilities for reaching tide water in the Bay of Fundy, and short water transportation to the New Engles of the state of the state of the second state of the second state of the state of the second st fill Mining Company in Nova Scotia commenced operations last summer. This undertaking has facilities for reaching tide water in the Bay of Fundy, and short water transportation to the New England and New York markets. There are at present 600 gas companies in the United States, and the consumption of suitable gas coal is consequently increasing, so that the extraction of the Cape Breton companies will not improbably become still larger. The American gas companies on the Atlantic seaboard consume, it is estimated, about 2,000,000 tons of coal, with an annual increase of 10 per cent. The resources of the United States in regard to the production of American gas coal are very large; still the value of Cape Breton coal for gas purposes cannot also be overlooked. What Nova Scotia requires, in common with all the English colonies, is more capital and more labour. The coal resources of Nova Scotia are very large, but they are not turned to any very great account at present, simply from the absence of an adequate amount of capital and adequate supplies of labour. The accession of a new minister to the Colonial Office may, perhaps, prove of some advantage to the colonies. Lord Office may, perhaps, prove of some advantage to the colonies. Low Carnarvon is said to appreciate to the full extent the value of those magnificent dependencies, and to be disposed to encourage their development by extending towards them the largest possible measure of official aid. The extension of means of information with regard to British America, and the gradual accumulation of population in that important quarter of the world must, however, be the great means by which the utilisation of Canadian coal and of Canadian resources generally will be achieved. There can be no doubt that Nava Sectional the Canadas will be much more thickly inhabited Nova Scotia and the Canadas will be much more thickly inhabited one day than they are at present, and when they are thus occupied a serious and thorough effort will, no doubt, be made to thoroughly develope their mineral wealth. We must not be too impatient, but must leave time to do its gradual but none the less beneficent work. Even now Nova Scotian coal has a tangible and recognised position upon the American and other markets, and plays a useful part in the industrial world. But Nova Scotian possesses a largest energy of coal industrial world. But Nova Scotia possesses so large a supply of coal that we must necessarily hear much more about it in future than we do at present.

THE MINING BUREAU IN PARIS.

Since the announcement has been made by the French press that Since the announcement has been made by the French press that an Examining Bureau was organising in Paris, with the adhesion of the principal foreign consuls in that city, for the purpose of investigating all foreign enterprises, without distinction, previous to their being placed upon the French market, it has been found necessary to have a special agent at the "Mining Bureau of the Pacific Coat" attached to it, and who will act as correspondent with the London agent of that institution, which has of late been so strongly commended by the French Government. We learn with pleasure that M. JULES PATON, the well-known financial editor for the last thirty years of the Journal des Debats, the leading organ of the French roses has been by special supreparties among intel agent-correspondent. press, has been by special approbation appointed agent-correspondent of the Mining Bureau. The above paper, whose authority in political as well as in financial matters is universally established, concludes as follows in its number for March 6, in regard to the projected appropriate the support of the formal jected organisation of the Examining Bureau for foreign enterprises on the Paris market, as recommended by the French Economist: on the Paris market, as recommended by the French Economist.—
"We fully associate ourselves with the conclusions of the French Economist, and
we are much gratified to learn that it is seriously intended to organise an examinia
and intelligence Bureau, which is already certain of the co-operation of a consultation commission, of which several foreign consuls resident at Paris have promised
to become members, in order to enlighted the directors of this new institution
upon the bona file and real character of enterprises originated in their respective
countries. Several of the most influential economists and financiers of Paris have
shown themselves well disposed to contribute with their experience and supporto the success of an organisation which is to protect efficiently interests worthy of
the greatest care.

In accordance with the wise conclusions of the French Economist, we should
recall with that paper that the annual French axings will, soon after the early
liberation of the last loan, amount to 1500 millions of francs; and that, should such
immense sum not be invested in French enterprises it would be soon attracted to,
land probably lest in, spurious Eastern or American schemes. Let us, therefore, we h
success to the new institution, of which we will speak again as soon as its organisa.

We find it unnecessary to add any comments to that coming from

tion has been completed."
We find it unnecessary to add any comments to that coming from such, a reliable source as the Journal des Debats and the French Economist. It is a well-known fact that the French investing public, being less acquainted than the English with the treatment of foreign enterprises, has been nearly in every instance disappointed whenever French capital has been embarked in them; and it is certain that, with such a protection association as recommended by the two above with such a protection association as recommended by the two above papers, modelled upon the Mining Bureeu, but embracing all foreign schemes, such mystification as the great trans-continental "Murphy" railroad swindle, which cost, two years ago, nearly 25,000,000 r. to our credulous neighbours, will never occur again. The Minng Journal, as well as our press and people on this side of the Channel, heartily welcome the new French institution, as well as its commendable object.

MINING IN CORNWALL.

We publish in this day's Journal reports of the meetings of two companies, which show that, notwithstanding all that is being said and written, legitimate mining enterprise in the county is neither dead nor dying. The Tretoil Company, if we remember right, was established in the early part of 1873, and, as we gather by the directors' report, has been worked with a steady determination to succeed, and with a success that is worthy the emulation of some undertakings which have made a great deal more noise in the mining worldings which have made a great deal more noise in the mining worldings which have made a great deal more noise in the mining worldings which have made a great deal more noise in the mining worldings which have made a great deal more noise in the mining worldings which have made as great deal more noise in the mining worldings which have made as great deal more noise in the mining worldings which have been paid only on the new shares, because —and here is another matter worthy of note—the Furzeham Company, who were the original owners of the mine, and are the largest shareholders, "have offered on this occasion to waive their right to a dividend on the shares reserved by them as their interest in the property," although, as appears by the accounts, there was a sufficient balance to pay them the same dividend as the rest of the shareholders; the object being, as explained in the report, to establish the company on a sound financial basis.

The secret of success in this case seems to be that a judicious selection has been made of the various improvements in machinery, to which attention has been frequently drawn in the Journal, notably Husband's pneumatic stamps and Blake's stonebreaker, the more general adoption of which would, undoubtedly, clear away many of the difficulties with which our mines are beset.

The Cariggan Company has been formed to work an immense deposit of tin-bearing rock in Roche, which has been worked with great

the difficulties with which our mines are beset.

The Cariggan Company has been formed to work an immense deposit of tin-bearing rock in Roche, which has been worked with great success for some years on a small scale. This deposit is well known, and is very highly thought of by all who have had an opportunity of seeing it. The workings take the form of an immense quarry, and will resemble the famous Mulberry Mine. At Cariggan, however, the tin is in greater quantity, and is disseminated through the whole of the stone, instead of, as at Mulberry, existing merely in the "leaders."

The mines are both owned almost entirely by "The mines are by "T

The mines are both owned almost entirely by North Country people, where mining is carried on with an amount of success and to an ex-tent little dream to f even in Cornwall; and from the well-known cautiousness and steady perseverance which characterise our northern friends, we look upon it as a favourable omen that some of their capital and experience is finding its way to our westernmost county.

REPORT FROM CORNWALL.

REPORT FROM CORNWALL.

March 12.—There is clearly nothing for it but patience. We have surely touched a point now at which it will not pay to send home the Australian tin produce, and, that being so, whether we have a further fall or an immediate rise, or whether matters remain for a while as they are, the balance must in the end be restored. The latest bugbear is a threatened strike of the tin-plate makers in Wales. But that can have no permanent ill effect upon the market. The demand for tin-plates will go on just the same, and if the manufacture is checked for awhile it must proceed with all the greater vigour afterwards. The movement for the reduction of wages, which commenced in the St. Just district, and is now general there, is rapidly spreading. It is inevitable that this should be so. Nothing can be done at this juncture by an insistance on what are deemed the rights of any one class. Adventures must bear the brunt under any circumstances; let them be assisted by the sharing of the burden between lords, agents, and men, and it will be borne until better times come. The movement for the return of the calendar month is spreading, but not without difficulty. At Boseas-well Downs there has been a strike against it, and the managers were compelled to give way. At Botallack the tutwork men refused to take bargains at the prices offered. A little consideration will surely show the working miner that, as we have said, the burden must be shared, and he is so far fortunate, where a mine is properly managed, that if he chooses to work a little harder—not so hard, indeed, as he would be obliged to do elsewhere—he would keep up his amount of wages, though the rate may have fallen off. And whatever may be said in favour of the five-weeks month—and so hard, indeed, as he would be obliged to do elsewhere—he would keep up his amount of wages, though the rate may have fallen off. And whatever may be said in favour of the five-weeks month—and we have always held, with Capt. Teague, that there is much in its favour—the return to the old system has this element of justice and extended economy about it, that it cuts the pay of the agents even more decidedly than it does that of the men. There is no way in which they can recount themselves.

extended economy about it, that it cuts the pay of the agents even more decidedly than it does that of the men. There is no way in which they can recoup themselves.

Complaints are again rife of the coals supplied to the Cornish mines. Whatever was the case, there is not the slightest necessity now that mines should be supplied with "dead small," respecting which it is difficult on occasion to determine by casual analysis whether it more nearly resembles "dirt" or "wet mud." If the mines imported for themselves we believe they could, as a general rule (some are very fairly off now), secure a supply of better quality at a direct saving expense. There has not for many years been that economy in the consumption of coal that there should have been, especially considering the increased pumping charges in depth. But there cannot be economy of coal if there are no "coals" to deal with. Another direction in which great economy may be effected is amalgamation. This is nothing new in Cornwall, where there are few old setts which do not include the working of several concerns. But in the mining district of late years there has been far less of this than would have been profitable. There might be more partial amalgamation or general; there might be a union of the execution of joint drainage works analogous, as we said the other week, to the old county adit. There may be such a general and complete amalgamation as has been projected, not adopted, between Wheal Agar and East Pool. In days like these everyone who has the interest of mining at heart should turn his attention to every quarter from which relief may be obtained.

It is the last feather that breaks the camel's back, and there are not wanting indications that the last attack of the smelters upon the interests of the mining population (for it is regarded in no other

not wanting indications that the last attack of the smelters upon the interests of the mining population (for it is regarded in no other light), their reductions of the tin standards by 4t. per ton may rouse our mines to that action which has been so long talked of. It caused great surprise to the interest of in time properties to the control of the great surprise to those interested in tin mines, and resulted in the resolution on the part of some of the largest adventurers not to sell any ore at the present prices. It is not at all improbable that the any ore at the present prices. It is not at all improbable that the large mines may determine to smelt their own ore, instead of any longer submitting to the antiquated and objectionable system under which their products are now disposed of. The difficulties are not great at Trumpet Consols, where the tin has been stocked for some time, rather than sell at the present figure; a call of 10s. per share has been made. The difficulty of cost-book mines under such circumstances is their want of floating capital: but the course taken at cumstances is their want of floating capital; but the course taken at

cumstances is their want of floating capital; but the course taken at Trumpet appears wise.

A paper "On the Antiquity of Mining in Cornwall and Devon" has been read by Mr. R. N. Worth, author of "Historical Notes on the Progress of Mining Skill," before the members of the Plymouth Institution. It has been the custom in the West to trace mining back to the days of the Phoenicians. According to Mr. Worth's argument, it is of far higher antiquity still. He holds that there is direct historical evidence of the existence of mining in the West 2300 years ago; that there is inferential evidence derived from the occurrence of bronze implements and weapons in different parts of Europe the tin of which he contends came from Cornwall; that would double that resid Europe the tin of which he contends came from Cornwall; that would double that period. And finally, that there is geological evidence based upon the conditions under which traces of the "old man" would double that period dence based upon the conditions under which traces or the dence based upon the conditions under which traces or the men" were found in the stream works at Carnon and Pentuan, which men" were found in the stream works at Carnon and Consequently, the men were found in the stream works at Carnon and Pentuan, which would antedate the commencement of mining, and consequently, the use of metals to a time when the Mammoth either still existed in the West of England or had not long disappeared, and when the general level of Cornwall and Devon was at least 20 to 30 ft. higher than it is now.

A definite start has at length been made with the scheme for car rying a railway through the South Hams. A meeting has been held

The Mining at Modbury this week, when it was decided to call in the aid of the Channel, Devon and Cornwall Company. The idea is that the line shall be on the narrow guage, and that it shall extend from Plymouth to Dartmouth. It will be made in sections. The country is one of the wide time the West of Evaluation but attack the statement of will be made in sections. richest in the West of England, but utterly destitute of railway accommodation.

The concluding part of the report of the meeting of the Society of Mechanical Engineers, at Penzance, has been issued. It is like the former part, profusely illustrated, and contains much valuable matter. The unfenced mine shafts are enlisting attention again. Not long since a man fell down an unfenced mine shaft in the Truro Union,

since a man fell down an unfenced mine shaft in the Truro Union, and was killed, and correspondence arising from this occurrence has been read before the Truro Board of Guardians. Dr. Le Neve Foster, the Inspector under the Mines Regulation Act, wrote to the Home Secretary on the subject, and in the course of his letter said:—"It is supposed that the man slipped in while trying to gather some sticks at the edge of the shaft. Ifind that the shaft is just within 50 yards of a road. The owner is the Rev. St. Aubyn Molesworth St. Aubyn, Glowance, near Camborne. Had the shaft been fenced I do not think the accident would have happened. Am I to take any further proceedings or not?" In a subsequent communication Dr. Foster acknowledged the receipt of a letter authorising him to prosecute the owner of the shaft, and then went on to say—"I called on Mr. Chilcott, solicitor, Truro, with regard to a summons: and he pointed out to me that I had, perhaps, misled you by the use of the word 'owner' in my letter of the 3d inst. Mr. St. Aubyn Molesworth St. Aubyn is the landowner and proprietor of the mineral rights, not the 'owner,' as defined by the Act. I am informed that the set is not under grant, and, therefore, there is no 'owner' under section 13. Mr. St. Aubyn will be interested as a 'person interested in the mineral rights. There are other shafts in Mr. St. Aubyn sha land in unenclosed ground and unfenced, which I reported to the local sanitary authority in June last, and which have not been attended to." A third letter was read from Mr. Liddell, the permanent Under-Secretary of the Home Office, to the Secretary of the Local Government Board. In it he writer said:—'I am to acquaint you that a prosecution is about to be instituted in this case, and to request that you will set in motion the nuisamee authority with respect to the shafts referred to in the last paragraph of Mr. Foster's second letter.'

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

March 12.—The South Staffordshire Iron Trade continues in a most depressed and unsatisfactory condition, and every week's delay in settling definitely the price of coal and the wages questions now under consi 'cration will only tend to aggravate the severity of the crisis. The reductions already announced in coal by the Earl Dudley and other leading firms are held to be inadequate to the measure of relief of which the iron trade stands in such urgent need, and the general opinion is that they will have to be supplemented before the ironmasters can experience any real benefit. It has been decided to give notice to the blast-furnace men of a reduction of 10 per cent. in the rate of wages: and the council being held to adjust the rate of puddlers' wages will doubtless effect a proportionate reduction in that branch of the labour market. Business alike in the pig and finished branches of the iron trade remains virtually in a state of suspense, and the quotations of such firms as are seeking orders are most irregular. A reduction of 11, in the price of pig and 21, in the price of finished iron of branded qualities is expected to be declared on Quarter-day, if not earlier; but it is improbable that anything will be done in this direction by the leading firms until the preliminary questions already referred to are disposed of. Second-class firms are accepting orders at 15s. to 20s. per ton under the prices ruling at the commencement of the quarter, unmarked bars having changed hands at 111, and even less, although the quotation of first-class houses still remains at 14, per ton. The sheet makers are hopeful of being able to carry into effect their recent proposal as to extra prices for distinct gauges, instead of classifying the distinctions of gauge into groups as herefores. It was stated on 'Change to-day March 12,-The South Staffordshire Iron Trade continues in prices for distinct gauges, instead of classifying the distinctions of gauge into groups as heretofore. It was stated on Change to-day that the assent of not less than 48 sheet makers had been given to the revised list of extras. The business transacted at the ironmasters'

that the assent of not less than 48 sheet makers had been given to the revised list of extras. The business transacted at the ironmasters' meetings—in Wolverhampton yesterday, and Birmingham to-day—was of very trifling extent, buyers declaring that at the current rates, or anything approaching them, it was impossible to place orders. The Earl of Dudley has reduced his price for best house coal 4s. and forge coal 3s, per ton, and the example has been followed by other leading firms in the thick coal district. The general quotations for coal are very irregular, concessions having been almost continuously made for some time past by the thin coal masters. The Cannock Chase firms, in accordance with the resolution passed last week, quote a drop of 5s. on best house coal, and proportionately on other qualities. Their present prices (loaded into boats) are:—Best deep coal, 15s.; best shallow, 14s.; hard coal, 13s. 6d.; deep rough slack, 10s.; and fine slack 7s. 6d. per ton of 2400 lbs. These declared reductions in price, which came into effect last Monday, have been accompanied by an intimation that wages will be reduced 1s. per day to thick coal miners and 9d. per day to thin coal miners. It remains to be seen how this proposal will be received by the men, who may be expected to pronounce their opinion upon it very shortly. Meanwhile all is uncertainty and suspense.

The prospects of the Sandwell Park sinking are officially reported to be somewhat brighter, although the shares have declined to 175, buyers. A fall has taken place in the shares of John Bagnall and Son (Limited), sales having taken place as low as 7½; Chillington iron are 7½; Ivy House and Northwood Colliery, 1¾ prem.; Patent Shaft, 6¾ prem. The easier tendency in the market for shares in coal and iron companies is solely attributable to the gloomy prospects of trade. Muntz's Metal Company (Limited) pays, as the result of last year's operations, a dividend of 10 per cent., and a bonus of 2½ per cent., besides writing off 10,000/, for good will, 4000/, f

much lower rates, including delivery, than it can be made for on the spot. Bars, for example, have been sold as low as 91, 15s., delivered in London. The iron referred to is, it should be stated, of very common quality.

common quality.

The Lawton Ironworks, near Shifnal, have been purchased by Messrs. Edge and Sons, of Coalport, the well-known manufacturers of chains, ropes, and engineering ironwork. The foundery and gasholder works of Mr. Robert Poole, at Malinslee, are undergoing considerable enlargement. The Madeley Wood Company have erected a new blast-engine at their Blissershill Works. Despite these extensions, however the iron trade of the Shropehipe district remains. tensions, however, the iron trade of the Shropshire district remains in a very unsettled and unsatisfactory condition. Trade in North Staffordshire is very quiet, and until the labour

market is brought somewhat more nearly to its normal condition there is little prospect of improvement.

Black Country hardwares are considerably slackening in demand, and the general prospects of business are discouraging. In the face of a falling trade, 8000 wrought rail forgers in the Dudley district have turned for an advance of 10 per cent, in wages.

DRAINAGE OF MINES,—In opening out new mining districts the convenience and economy of the old Cornish system of pumping cannot be doubted, but it is now so constantly necessary to work old and deep mines which have been from time to time suspended, that it is frequently practicable to employ a cheaper system of pumping. and deep mines which have been from time to time suspended, that it is frequently practicable to employ a cheaper system of pumping. In these cases the quantity of water to be pumped can be pretty accurately estimated, and the placing of the pumping machinery at the bottom of the pit instead of the top is much facilitated. Where this system of pumping is applicable the "special" steam-pump of Messra. Tangye Brothers and Holman, of Birmingham and London, have justly acquired a very high reputation, and as the expensive gearing inseparably connected with the Cornish engine is rendered unnecessary, the new system is likely to become more and more generally into use. The system of pumping by applying the power at the bottom would admit of the use of the best forms of pumps yet introduced, and as it is claimed that the "special" is simplicity itself it is likely to receive it fair proportion of patronage. In the pair just completed for a large colliery near Newcastle on-Tyne, the steam cylinder is placed horizontally on a base plate in direct line with the pump, and the same piston-rod goes into both steam and pumping cylinders; thus no fly-wheel, crank, or extraneous gear of any kind is required, and the only moving part which can be seen is the piston rod as it passes to and fro from one cylinder to the other. Each stroke of the pump has the effect at one end of sucking water into the apparatus, and at the other of forcing water, already drawn up, into the discharge pipe, an air wessel being conveniently situated so as to prevent concussion. The pair of pumps just completed, and which we yesterday had the pleasure of inspecting, are of larger than usual dimensions. The steam cylinders are of 32 in. diameter: the pumping cylinders of 7 in. diameter, with a stroke of 6 feet, and the air vessel is 18 ft. high, with an internal diameter of 24 in. The pumps are brass lined, and have four separate valve boxes fitted with multiple valves, and the whole apparatus is mounted upon massive base plates. It is intended to plac

worked. With regard to the supply of steam-power, the boiler can, if space permit, be placed in the working close to the pumping apparatus; but if this should be found inconvenient, steam can be conveyed by a pipe down the shaft from the believest the form. iler at the top.

REPORT FROM LANCASHIRE AND CHESHIRE.

March 12.—The topic to which all attention is being directed in this coal field at present is that of the wages of the miners. At the meeting of the South-West Lancashire Coal Association, held in Liverpool on Monday, the subject was fully discussed, and a resolution was unanimously adopted that notice should be given of a reduction of wages at the rate of 15 per cent., the reduced scale to commence at the pay succeeding the date on which notice was given. The effect produced upon the miners was unquestionably of a very unsatisfactory nature, for it happened, unfortunately for the em-The effect produced upon the miners was unquestionably of a very unsatisfactory nature, for it happened, unfortunately for the employers in this district, that they were the first to announce a reduction, save in the Oldham and Ashton districts, where the question has been referred to arbitration, and a reduction after the rate of 10 per cent. has been ordered. Since Monday, however, has appeared an intimation from several other districts of a proposal to reduce wages, and it is hoped that this will have a good effect here. There is a very good feeling at present between both masters and men, and there is a very anxious desire shown on both sides that this should be maintained. Anything in the nature of a strike justnow should be maintained. Anything in the nature of a strike just now would have an effect upon trade which could not fail to be disadvantageous to both parties in the dispute, and there is, therefore, a deep desire to avert it.

There continues a fair demand for the better qualities of gas and house coal, but for inferior descriptions it is almost impossible to get a fair remunerative price. In the Wigan district bingy has been sold as low as 8s, per ton, and for slack 6s, and 7s, per ton at the pit's mouth has been taken. The general rates are 8s, to 9s, per ton for slack, and 11s, per ton for bingy.

There is still no change for the better in the Iron Trade. The spurt reported last week has not been maintained, and in most departments things are still very bad. Reductions in ironworkers' wages are contemplated, and this subject will, no doubt, be bought prominently forward in a few weeks. There continues a fair demand for the better qualities of gas and

wages are contemplated, and this subject will, no doubt, be bought prominently forward in a few weeks.

A question of considerable importance to colliery proprietors generally was before the St. Helen's magistrates on Monday. Two drawers were summoned for neglect of work, and on their behalf the point was raised as to whether they, being paid by the collier who engaged them, were servants of the owners of the colliery. The Bench ruled that, according to the spirit of recent legislation, all persons who worked in the mine were amenable to the regulations, otherwise it would be impossible to carry out the requirements of the law. A fine was, therefore, imposed. The justices refused to grant a case on the point of law.

REPORT FROM SCOTLAND.

March 11.—There has been an extensive business done in the War-March 11.—There has been an extensive business done in the Warrant Market during the past week, and the fluctuations in value have been considerable. The price advanced from 92s, on Tuesday last week to 95s, 6d., which was paid on Friday, but the closing price that afternoon was 94s. On Monday the opening price was 94s., and a large business was done down to 91s, 6d. Yesterday the tone was decidedly dull, and numerous transactions took place from 90s, 6d. to 88s, 9d., closing with buyers at 89s., and sellers asking 89s, 3d. To-day prices have been most irregular; business was done as low as 88s, 3d., from which it rallied to 91s, 6d., receded again to 90s, 3d., and closed about 90s, 9d. In such a speculative market the quotaand closed about 90s, 9d. In such a speculative market the quotations for makers' iron are of necessity very irregular, and sellers are rendered more cautious by the dread that the reduction of wages now taking place in the mining districts may cause some interrup-

tion	to the produ	etion.		No.	1.	No.	3.
	Gartsherrie at	Glasgow (de	liverable alongsid	le)100s	.0d	91s.	0d
	Coltness	ditto	ditto	102	6	93	0
	Summerlee	ditto	ditto	100	0		0
	Carnbroe	ditto	ditto	96	0	91	0
	Monkland	ditto	ditto	93	0	91	0
	Clyde	ditto	ditto	93	0		0
	Govan, at Broo	omielaw	ditto	93	0		0
	Langloan, at I	ort Dundas	ditto	100	0	93	6
	Calder	ditto	ditto	100	0		0
	Glengarnock,	at Ardrossan	ditto	97	6		0
	Eglinton	ditto	ditto	92	0	90	0
	Dalmellington	ditto	ditto	92	0	90	
	Carron, at Gra			100	0		
	Shotts, at Leit	h	ditto	100	0	92	6
	Kinneil, at Box	ness	ditto	95	0	91	0
	Bar iron	**************	ditto	£1	2 10 0		
			SHIPMENTS.				
	Week ending I	Tarch 8, 1873			Tons	12,43	24
	Week ending !	March 8, 1874				8,66	54
						-	
	Decrease					3,76	
			1873			31,8	18
Im			iron into Grange				
						1,9	
	Week ending I	March 8, 1873	*****************		********	1,6	35
						-	-
	Increase				*******	36	
	Total increase	for 1874	*******************			12,00)2
Till	a comambat	minlant fla	atuations which	h have to	lean ml	000	2 22

The somewhat violent fluctuations which have taken place in the price of pig-iron since last week were undoubtedly influenced by the probability of a strike ensuing on the announced reduction in colliers' wages coming into force. This was the first thought of merchants, and the market was somewhat "rigged" to meet their demands, but on quieter consideration they changed their opinions, and prices came back fully 6s. a ton. The question of vital importance still is—"Will the colliers submit to the reduction, or will they strike?" After a pretty minute enquiry, we believe that the colliers will not strike unless the drop is 2s. or 3s. a-day, and this, we believe, they will not submit to without a struggle. What effect the notices of reduction will produce will not be known generally till the beginning of next week, and if a strike ensues arrangements have been made to "blow out" a large number of the furnaces.

There is a dead quietness in the Finished Iron Trade; and although makers are making great efforts to keep their machinery in motion,

makers are making great efforts to keep their machinery in motion, they are meeting with little success. A few trifling orders for bars for shipment are offering, but the export demand is very limited, for shipment are offering, but the export demand is very limited, that for this week being scarcely more than a third of the corresponding week of last year. The shipbuilding trade is fairly brisk on the Clyde at the present time, but a good portion of the iron is coming from the South. Makers of heavy forgings are kept going, and so are machinists, but melters are quieter, and new work scarce. The boiler makers at Leith have gone on strike, the employers having refused to grant them 6d. extra per day as "black money."

Coals continue in buyers' favour: and although the spring shipments have set in, the market is rather quiet than otherwise. No new general reduction has taken place by masters who are selling under ordinary rates. The quantity sent foreign and coastwise from the Scotch ports for the week just ended amounted to 41,282 tons, including 13,917 tons from the port of Ayr for February, against 27,568 tons for the same week last year.

In the various mining districts of Scotland conferences or meetings have been held to bewail the announced reduction in wages, and to consult how it is to be avoided. Some think the true panacea would be a strike, others a further restriction of labour, while the Ayrshire

be a strike, others a further restriction of labour, while the Ayrshire be a strike, others a further restriction of moour, while the Ayrante miners have resolved to ask the Glasgow Conference to decide whether "a fine of 20% or so" should not be inflicted upon any district or colliery which refuses to limit the "darg" to the required extent. Others, again, have actually struck work in anticipation; and some, after having been out in the cold for a couple of weeks, have actually the reduction and some the cold for a couple of weeks, have accepted of the reduction, and are now threatened with a second drop of 1s. per day. Mr. McDonald is still fondling his "restricted darg" theory, and is so successfully imitated by his followers that it is difficult—if even when facing the inevitable—to forecast the

it is difficult—if even when facing the inevitable—to forecast the future, a word will turn them either way. Let us hope that for once he will lead them in the right path.

A Correspondent, writing on the Restricted Output of Coal, says—"It is vell known that the United States of America have so increased their blast furnaces in the last three years that now her capable production of pig iron exceeds her wants: and thus we have lost our largest customer for the article in the smelting of which in 1872 was consumed 20,000,000 tons of our production of coal. Other countries, such as France, Germany, Sweden, Austria, Russia, Australia, Chili, Nowa Scotta, Brazil, Japan, the East Indies, &c., are all developing their own supplies of coal. In New South Walce coal mining is going on to great as

tent. The production is now over 1,000,000 tons, and is only limited by the demand for export. New mines are opening out, the seams are of great thickness, and the area of coal-bearing strata equals that of Great Britain—quality of coal being equal to Newcastle. The Japanese Government have got out a mining engineer (Martin) from England, for the purpose of scientifically mining their coal, and will be able to supply steamers in China at a much cleaper rate than we can do from this country. The East Indian Government have also got out Mr. Ness, mining engineer, from Staffordshire, to open out the coal fields in Beara and Central Provinces. Coal seams there extend to a great thickness—over 40 feet thick—within 200 ft. of the surface, and over a large extent of country, so that they will be cheaply wrought. A railway, 50 miles in length, connecting the coal field to the Great Indian Peninsular Railway is about finished, and will convey the coals to B-mhay. There is also the Ranajunge coal field, 121 miles from Caleutta, largely worked by native labour at a depth of 134 ft., and supposed to extend over 500 square miles. In view of such development of native coal in the East, the Peninsula and Oriental Steam Company have resolved to send out screw-colliers to carry native coal to the different stations in the East, and thus on all hands our market for coal gets contracted. Our trade gradually gets restricted, and depend upon it, if the miners push things to extremity by strikes, &c., the result will be serious for themselves."

REPORT FROM DERBYSHIRE AND YORKSHIRE.

March 12.—In pig and manufactured Iron a good business is being done in both North and South Derbysire, more especially when it is considered that there has been a marked decline in the Sheffield trade, large consumers of the Derbyshire furnaces. At Sheepbridge there are five furnaces in blast, whilst there is no falling off at the works on the Erewash Valley line. Pipes, pillars, and general castings keep the foundries well going. The Coal Trade is by no means in a satisfactory state, not only as regards the demand, but also as to the wages question. The men for a long time have revelled in extraordinary high wages, owing to the very high price of coal in the early part of last year. Since then the cost of have revelled in extraordinary high wages, owing to the very high price of coal in the early part of last year. Since then the cost of coal to the public has fallen in some instances 50 per cent., but the workmen still consider that there should be no reduction of wages. Some few weeks since the Clay Cross miners accepted a reduction of 15 per cent., and a week or two since those engaged at the Eckington pits received notice that they would have to submit to a reduction, to which they demurred. To prevent any unpleasantness, at the request of the agents of the Miners' Association, the employers received under the present. To show that it is impossible for the present rate of wages to be main tained we may say that coal is now being sold at 10s, per ton at some of the pix which last year realised 19s, per ton. The trade in house coal to the metropolis has been very quiet for some time, and although the change in the weather during the last few days has made some little difference, yet there is every appearance that we shall have an unusually quiet summer, and that prices will be even lower than they now are.

that we shall have an unusually quiet summer, and that prices will be even lower than they now are.

In Sheffield there has been no change whatever in the state of the general trade. Beveral branches are very quiet, and many of the workmen are only working from three to four days a week.

On Wednesday a rapidly improvised meeting of the South Yorkshire colliery owners was held at the King's Head Hotel, Barnsley, for the purpose of considering the wages question. A number of the colliery owners of North Derbyshire were present, but no resolution whatever was come to. In plain terms, the feeling was that each colliery owner or firm should act on its own account. The feeling is general that wages must come down, but to what extent even colliery owners are not that wages for the extent of in re, the properiors might fairly ask for a reduction of wages to the extent of in re, the properiors might fairly ask for a reduction of wages to the extent of the per cent. This, we believe, would be acquiesced in by the men, who are led by Messra. Normansell and Gasey, whose practical and moderate views are far preferable to the insane wanderings of gentlemen who have been pushed forward into high positions.

Before closing my weekly notice, I am sorry to find that Mr.

Ierable to the insane wanderings of gentlemen who have been pushed forward into high positions.

Before closing my weekly notice, I am sorry to find that Mr. McDonald blames our mutual friend, Mr. J. Normansell, for giving me certain information in connection with a small article in last week's Journal. I have no doubt that Mr. McDonald will get over that, and that Mr. Normansell, Mr. McDonald, and myself will be as good friends as ever. But it must be recollected that a member of Parliament must in many matters be more reticent than otherwise, and knowing Mr. McDonald's many good qualities, I believe that in the long run they will far overshadow what we may term the natural effervescence of his new position—that of a member of Parliament. I should, however, recommend to him the well known motto—"The middle course is the safest." We are all pleased to find that such a man as Mr. McDonald is returned to Parliament as the representative of the working men, but we also desire to see him well respected by those whom he will now assemble with, and such, I believe, was the purport of the remarks in last week's Journal, which, I hear, have seriously offended the member for Stafford.

The McCHANICAL VENTILATION OF MINES—That collieries one

THE MECHANICAL VENTILATION OF MINES.—That collieries can be much better ventilated by mechanical means than by what is known as the furnace has been forcively illustrated by a series of experiments just made at the Darfield Main Colliery, Barnsley. In October, 1872, the coal near to the furna e caught fire, and to extinguish it the entire workings had to be inundated with water. In getting the colliery into working order it was determined to secure the ventilation by means of fan, and for that purpose the sevices of an eminently practical man, Mr. Easton, of the firm of Easton and Tallerstull, of the Alexander Foundry, Leeds, were called into requisition. He brought out and patented a fan which for the results it has given far excels anything known in the history of mining, and which promises to entirely revolutionise all our previous ideas with regard to the best and safest method of ventilating collicies. The fan itself consists of a number of vanes, its diameter being 40 ft., 10 ft. wide, with a drop margin plate in the ceatre, by which the air as it goes in at both sides of the fan is divided on to the vanes. The fan is kept at work by an engine, with a cylinder of 21 in. in diameter, with a 4 ft. 6 in. stroke. It is fitted with expansive side valves, so as to cut off the steam at any part of the stroke. There is a duplicate engine ready in case of any accident taking place. One of the most important features in the entire fan is that whilst it only requires about 13 tons of coal per week the furnace would take 80 tons, and giving at least 50,000 cubic feet of air less per minute. From the experiments made during the last two or three days the results were as follows:

Revolutions per minute.

Steam gauge.

Cubic feet per minute.

Steam gauge.

Cubic feet per minute. THE MECHANICAL VENTILATION OF MINES. That collieries can

TRADE OF THE TYNE AND WEAR.

March 12.—The Coal Trade continues in a very depressed state, and as stocks are accumulating, and buyers are holding off for still further reduction, in addition to the heavy falls that have taken place ately, it is difficult to guess how far the movement will proceed. The Tyne and Wear are crowded with vessels of every description, expecially sailing.

ately, it is difficult to guess how far the movement will proceed. The Tyne and Wear are crowded with vessels of every description, especially sailing.

The Permanent Fund, established here a few years ago for the relief of miners injured by accidents, and for the benefit of widows and children left by men killed by accidents, &c., has proved a most complete success. For a long period the progress made by this excellent society was only slow, but during the past two years it has been very remarkable. The number of members is now large, and the funds now in hand are apparently ample for all the purposes contemplated. A few days ago a meeting was held, for the purpose of establishing, if possible, a fund in connection with it for the relief of old miners who have escaped accidents, but have been rendered incapable of working in the mines on account of old ago. The meeting was well attended by delegates and officers connected with the Miners' Association in the district, and also by Mr. Stobart and other prominent members of the coal trade. Mr. Blyth and others have cellected some statistics respecting the age and period worked by miners in the pits, which are curious, and will no doubt prove useful; many of the men have been employed 50 years and upwards in the mines. There is every prospect of this fund being established in a short time.

Mr. William Crauford, the able principal agent for the Durham Miners' Association, has again been subjected not only to annoyance, but positive insult at the hands of some of the members of the society, who have, for reasons best known to themselves, conceived a dislike to him. The delegate for Sacriston had given notice of a motion, which in due course came up for discussion on Saturday last, to the effect that the executive give Mr. Crauford three months notice to quit their service. One of the reasons given for this step was so trivial as to be utterly undeserving of any notice, and the other will, we think, be considered by all reasonable people as reflecting the greatest c

INSTITUTE OF MINING AND MECHANICAL ENGINEERS, NEW-CASTLE.—A meeting of members was held on Saturday, in the Wood Memorial Hall, Newasatle (Mr. A. L. Stephenson in the chair). A large number of new members were elected, and the Chairman observed that it was very gratifying to find their numbers increasing so rapidly, more especially as they had amongst their new members some whom they might expect to become presidents of the institute.—Mr. T. F. Hodley, of Sunderland, read a paper on the subject of the valuation of mines for the purposes of local taxation. Mr. Hedley divided his subject into three parts: first, the statutes that statutes in force for the valuation of property; second, the expounded law or decisions of the superior courts on the statutes in force; and third, the application of the statutes, and the decided cases to the valuation

mines for the purpose of local taxation. In the course of his remarks Mr. Hedley contended that the value of a current going colliery could not legally be Emitted by mines for the purpose of local taxation. In the course of his remarks Mr. Hedley contended that the value of a current-going colliery could not legally be limited by the rents paid for the coal alone. Referring to the exemptioning of irou mines, he pointed out that there was no more difficulty in rating an iron mine than there was in rating a coal mine, as the ironstone now possessed legal ascertained valuations; and that, as regarded the tin, lead, and copper mines, &c., there was no difficulty in estimating the annual value of the ores for assessment. In conclusion, Mr. Hedley stated that he had valued the surface lands and buildings connected with the iron mines in the Forest of Dean, and the tin and lead mines in the county of Salop, and that he had no difficulty in applying the principles of hypothetical tenancy to the rating of the surface lands, buildings, and machinery. A short discussion afterwards was raised upon the mode of valuing the cottages connected with collieries, and Mr. Hedley undertook to lay his views before the members in a supplementary paper. On the motion of Mr. Southern, a Government Inspector, seconded by Mr. H. T. Morton, a cordial vote of thanks was given to Mr. Hedley for his valuable paper.

REPORT FROM MONMOUTH AND SOUTH WALES.

March 12.- A dark cloud is beginning to gather over the district and there is little doubt that there will be renewed difficulties in connection with the staple trades. The Iron Trade is drifting into a most unsatisfactory state, and makers seem to be convinced that it is no use indulging any longer in the expectations which were formed at the beginning of the year. For three months we have been waiting anxiously for their realisation, but such an ultimatum appears to be farther off now than eyer: indeed, the fact is only appears to be farther off now than ever; indeed, the fact is only rendered more apparent every day that buyers have long ago made up their minds not to give out any more orders than they are really bound to until some considerable reductions are made in quotations. bound to until some considerable reductions are made in quotations. All must, therefore, come to the conclusion that prices must now recede again, or trade will leave the district altogether. Indeed, this state of things seems at present to be common to the whole country. The crisis is, no doubt, close at hand, and before it is over we shall in all probability witness some further hostilities between masters and men. If the lowering of quotations rested with the manufacturers probably they would have prevented things getting into the state they are at present; but they could not help themselves. They have maintained quotations more out of necessity than through anything like obstinger. They derived little or no than through anything like obstinacy. They derived little or no benefit from the high prices, for it has been generally admitted that ironmaking was more profitable to makers at the low prices which were current some years ago than it has been of late. The cost of everything used in the manufacture has been greater in proportion since the high prices prevailed than they were previously; and the fact is that the more iron was raised in value the less profitable it became. If we look back upon the rising of prices it will be seen that while rails, the staple manufacture in South Wales, advanced from 7L per ton to 10L coal advanced from rates ranging from 7s. 6d. to 9s. and 10s. per ton to 17s., 20s., and 23s. per ton; coke advanced from 20s. to 40s., and pig-iron from 4L 10s. to 7L, 8L, and 9L per ton. It was quite un exceptional case in this district when 97. per ton. It was quite an exceptional case in this district when more than 117. per ton was obtained for rails. Then, added to the above must be the almost doubling of the wages rate. During the last fortnight rails have been quoted down to 97. 10s. per ton, and it is not surprising that makers say they are unprofitable. They have, however, kept their works going so long as they have in the expectation that things would improve from week to week but expectation that things would improve from week to week, but expectation that things would improve from week to week, but their expectations have not been realised. A considerable change must now come over the trade; and before ironmasters can make the necessary reductions in quotations the cost of fuel and labour must be materially lowered, and a general reduction in the wages must be the result. Therefore, it is apprehended that hostilities between masters and men will again arise, and the trade will probably be completely deranged. If, however, the workers will look at matters in a reasonable light the trade may yet be prosperous; for it is pretty certain that when prices can be agreed upon there will be a good number of orders given out for most descriptions of will be a good number of orders given out for most descriptions of iron. The exports of iron during the last month amounted to a total of only 13,188 tons, of which 8098 tons were cleared from Cardiff, 10,250 tons from Newport, and 4847 tons from Swansea.

Cardiff, 10,250 tons from Newport, and 4847 tons from Swansea. The Patent Nut and Bolt Company, which has works at Cwmbran, Monmouthshire, is gradually becoming one of the most prosperous concerns in the kingdom. The dividend for the past half-year has been at the rate of 10 per cent. per annum; and, after adding 21,000% to the reserve fund, there is a respectable balance to be carried forward. The company's works are in full employ upon profitable contracts. fitable contracts.

fitable contracts.

The state of the Tin-Plate Trade is most unsatisfactory. The workers have for some time been agitating for an advance in the rate of wages, some of them demanding as much as 20 and 30 per cent., in order to have their wages assimilated to the rates paid in the English districts. Knowing, however, the great differences which exist between the Welsh trade and the English trade, the emission of the property of ployers have refused to concede the demands of the men. If the latter press their claims a general lock-out is likely to take place at the end of the month.

A change is also taking place in the Coal Trade, and it is not expected that the demand will be as brisk again as it has been until prices are lowered considerably. Some material reductions have already been made in house coals. A seam of coal, 3\frac{3}{2} ft, in thickness, known as the "No. 3," has just been struck at the Hafod Pit, near Pontypridd.

near Pontypridd.
The reports of coal last month were as follows:—Cardiff, 227,251 tons, as compared with 226,577 tons in Feb., 1873; Newport, 39,391 tons, against 21,534 tons; Swansea, 43,294 tons, against 41,302 tons; and Llanelly, 7332 tons, against 4834 tons, The coal shipments coastwise were as annexed:—Cardiff, 52,237 tons, against 91,973 tons in the corresponding month of last year; Newport, 42,880 tons, against 61,394 tons; Swansea, 19,085 tons, against 21,980 tons; and Llanelly, 6240 tons, against 9174 tons. Swansea exported also 15,457 tons patent fuel, and Cardiff 2962 tons.

Meetings of Bublic Companies.

WHITEHAVEN IRON MINING COMPANY.

The ordinary general meeting was held yesterday at the London Tavern, the Right Hon. the Earl of Devon in the chair.

The notice calling the meeting was read by Mr. J. W. MARSALL, the secretary. The directors' report was taken as read.

The Chairman said that although there was not a sufficient number of shareholders present to form a quorum, still as several shareholders were present he would proceed to call attention to some of the points in the report, although they would not be able to transact any business or pass any resolution; and if at the end of an hour a sufficient number of gentlemen were not present to form a quorum the meeting must be adjourned for a week. The form a quorum the meeting must be adjourned for a week. The object of the extraordinary general meeting, which was appointed to take place immediately after the ordinary meeting, was to alter object of the extraordinary general meeting, which was appointed to take place immediately after the ordinary meeting, was to alter the Articles of Association, so as to enable a smaller number of shareholders to form a quorum. Although they could not, in the absence of a quorum, pass any resolution, still he would call attention to some few salient points in the report. The directors had considered that they would best serve the purposes of the shareholders, and do most justice to the position of affairs and place the information before them more acceptably, if they confined themselves simply to introducing a few of the leading points connected with the subject, and leaving the plain straightforward report from the manager to tell its own story. There were one or two points in the report which were of special importance to which he would direct the attention of the mine attached to the last report showed the extension of levels to June 30, and it was stated that, according to the estimates of the manager, besides the one extracted from the mine. \$4,000 tons of ore had been opened out as reserves. It would be observed on looking at the present report that the ore now laid epen amounted to \$6,128 tons, including the original quantity, with the addition which had been laid open since that time down to December 31. The working of the mine had been continued, and a larger or smaller number of men had been employed upto the present, and although the quantity varied away from the mine had been somewhat less in the half-year to which the report applied than in the previous half-year, that had been owing in a considerable degree to the greater difficulty of transmitting the ore, and the difficulty of finding cartage during the fall, when the roads were in a bad state, and the contractors were less disposed to put their horses and carts on the road. At the same time it was satisfactory to observe, from paragraph 3, that "an increased price for the ore baving been realised the deliveries have amounted to 41.68, 3s. 8d., Articles of Association, so as to enable a m a quorum. Although they could not, in lution, still he would call attention to som directors had considered the country.

now in the way of being prosperously overcome. For the line which was to run from the mine to Ravenglass nearly all the land had been procured upon terms which the directors did not think unreasonable. The contractor for the line had commenced work, and on March 4 thirty men were employed on the line, and in proportion as they came into possession of the land the staff would be increased, and the works pushed on with rapidity consistent with efficiency and complete construction. The gauge, as it was stated in the last report, was to be extended from 2 ft. 9 in. to 3 ft.; one main consideration which weighed with the director was that it would be easier to get rolling stock for the 3 ft. gauge which existed in other parts of the country. The directors thereby proposed to apply to the Board of Trade, who had power to give the company permission to revert to the 3 feet gauge, as was originally intended. The directors wan or reason to doubt that he railway would be constructed within at least 12 months from the period of its own-mencement, and if the weather in spring and summer were favourable, and the contractors were not impeded by unforeseen difficulties, he hoped a considerable portion would be oneeded at an earlier period. As regards the lease from Lord Leconfield, he was happy to say he believed that all difficulties had now been removed, and although the lease had not yet been finally executed there was no doubt that it would be at an early period, and the company would be in possession of the mine for 25 years. The manager in his report stated that considerable progress and improvement had been made, and he now entertained a more favourable wiew of the prospects of the company than circumstances hitherto had enabled him view of the prospects of the company than circumstances hitherto had enabled him view of the prospects of the company than circumstances hitherto had enabled him to do. Without endeavouring to excite any unreasonable expectations, the directors felt justified in saying that the affairs of t

CAPE COPPER.—At a meeting of the directors of this company,

payable on March 25.

INDUSTRIAL COAL AND IRON COMPANY.—The annual meeting of proprietors was held on Monday, when it was reported by the directors that the Dunston Collieries had been worked without a single accident, while the new sinking was likely to be finished in about three months. The machinery at that sinking would be capable of raising 400 toris per day. At the Woodhouse Collieries a range of buildings had been erected during the year. At No. 2 pit for the working of the Haigh Moor, and ultimately the Silkstone coal, it was expected to reach the former seam in June next. At No. 3 pit the Barnsley seam had been reached, but the coal was found to be very much broken with the old workings. The profits for the last quarter had been sufficient to yield a dividend at the rate of about 30 per cent. per annum on the amount expended in purchasing and working the going collieries, but the directors, for certain reasons which they gave, only recommended a dividend at the rate of 11 per cent. per annum, making, with the three interim dividends already paid, a dividend for the whole year of 14 per cent. The Chairman (Mr. Nevill) congratulated the shureholders upon the success already attained, for the Dunston Collieries a good deal of money had been spent on works and machinery, and he hoped to be able to report that coal had been struck at their next meeting. The pit was being sunk at the rate of 6 yards per week.

PENHALE WHEAL VOR.—At the general meeting, on March 6 (Mr.

machinery, and he hoped to be able to report that coul had occurred as the maxime meeting. The pit was being sunk at the rate of 6 yards per week.

PENHALE WHEAL VOR.—At the general meeting, on March 6 (Mr. T. Holroyd in the chair), a call of 11. per share was made. Looking at the present state of the mineralised lode in the 170 fm. level, and to the very great improvement in the lode since the mine was in fork, it was resolved to offer to the shareholders, pro rata, the 379 forfeited shares in the hands of the company, at par, or 18. 18, per share, subject to acceptance within two months. Capt. W. H. Martin reported that since they have drained the water by means of the Holroyd engine they have only had about six weeks for exploring operations, to drain a mine 170 fathoms deep; this has not been an easy task in the winter season, but now they have their machinery in regular course of working they will sink the shaft and extend the levels with greater speed. On this lode in the shallow levels, or gossan bunch, the former workers raised and sold thousands of tons of copper ore of good quality, at a profit. Under and near this copper the lode became very rich for tin, in places worth 700/, per fathom; and now they have sunk through the dead floor of ground which traverses through this district the lode has commenced to produce copper, and under and about this copper, without the least doubt, they will have a rich course of tin. The mine never looked so promising as at the present time.

WHEAL SETON.—A special meeting of shareholders was held at

course of tin. The mine never looked so promising as at the present time.

WHEAL SETON.—A special meeting of shareholders was held at the mine, on Tuesday, respecting the overflow of water that will ensue from the stopping of North Roskear. Capt. Teague presided. The quantity of tin nised at present is about 10 tons per month, which at the current low prices results in a loss of at least 2000, per month.—The Chairman admitted that the mine was not worked as it should be, as the low price of tin would not admit of it. He also stated that a rise of 100, per ton in tin would not be of any good. To be worked profitably Wheal Seton should be worked in conjunction with other mines.—After some further discussion, it was resolved, on the motion of the Chairman, seconded by Mr. John Mayne, of Pool, "That the mine be offered as a going concern, and in ease it is not sold as such the materials be offered to the lords."—Mr. Mayne, of Cambonne, asked if it was a spirit of vindictiveness that prompted Capt. Teague to knock the mine?—The Chairman said it was not a spirit of vindictiveness, but was on necount of the mine losing so much money.—It was also resolved, "That in the event the mine is not sold to the lords the materials be drawn to the surface, and disposed of by private contract or public auction." A special meeting will be held on Mach 24 to confirm these resolutions.

Parky Mountaln.—At the meeting last week the Chairmans

On Mach 24 to confirm these resolutions.

Parvs Mountain.—At the meeting, last week, the Chairman (Mr. T. Braby, F.G.S.) stated that the history of the mine had been one of vicisatudes, for after remaining poor it has after every few years alighted upon a remarkable success—the ore being found in bunches—and then there has been a period of weakness; but it appeared to the directors that it would be absurd to allow a mine so renowned, and with the remarkable and promising features of Parys Mountain, to be abandoned. It was ultimately resolved that the capital of the company be increased by the issue of 5000 shares of 1l. cach, bearing a preferential dividend of 15 per cent., and to participate equally with the other shares in all surplus profits. The directors have had several interviews with gentlemen interested in the poor copper ore process, and have gone into the matter chemically, but found that to carry it out in their mine would require more capital than they were in a position to raise. It is estimated that at a cost of 1l. per ton the ore may be made to yield 3l, 3s, worth of products. It was resolved to have the mine inspected in order to facilitate the placing of the new shares.

[For remainder of Mectings see to-day's Supplement.]

[For remainder of Meetings see to-day's Supplement.]

ECHOES FROM THE MINING MARKET.

ECHOES FROM THE MINING MARKET.

The Tin Market continues in a most depressed condition, the further drop in the standards having completely set at naught the rising hopes of the mining market. It is the opinion of many, however, that we have now seen the worst, that the metal has reached a figure which preclude any importations being made at remunerative prices, and that we may expect to hear of an advance before long. In this may help to elucidate matters by comparing the prices realised scarcely a year ago with those that can now be obtained. In March, 1873, first-class Australian ore found a ready market at 90%, per ton; at the present moment the very best cannot command 60%, per ton, and of course, the inferior ores sell only at a much lower price. We have thus a difference of 30%, per ton—more than 33 per cent. Unless the Australians have been netting enormous profits it stands to reason that their books must show absolute loss on present importations, for such an alarming depreciation must be a most serious matter. It would appear, therefore, that it is merely a question of time for these supplies to show a material reduction in quantity. It is a significant fact that at a recent sale one third of the Australian tin offered was withdrawn—a fact which is tandamount to a confession on the part of the Australian producers that they cannot obtain remunerative prices. It is to be hoped that when we do see a reaction in the tin market we shall not witness such abnormal prices as those of the latter part of 1872 and the commencement of 1873. They can only be the result of the most reckless speculation, and if the mines are benefited for the time, the depression which always manifests itself sooner or later does more harm than any short spell of very high prices. It is notorious that the London operations in this metal have been upon an enormous scale, and that prices were at the time we have alluded to forced to an utterly fictitions level. The consequences were soon apparent. A few failures took place, and the

rate price for their produce if they could depend upon a fairly steady market. At present the tin trade is a lottery—nothing more.

The rapid progress made by the works of the Cornwall Minerals Railway is noted with extreme satisfaction. The value of this undertaking can scarcely be over-estimated, for it will enormously stimulate the production of china-clay, and bring Cornwall into prominence as an iron-producing county. The central parts contain immense deposits of this metal, and in anticipation of the early opening of the line setts are being eagerly taken up; it is, therefore, likely that ere long we shall see Cornish iron mines taking an important position upon the market.

As an example of the extended scope of the mining market, it is to be noted that stone has now found its way into favour. The Glaisdale Whinstone Quarry Company has lately been introduced, to work a property in the North Riding of Yorkshire. As a new source of investment it has been welcomed, the stability of such undertakings being well known.

It is announced that the arbitration between East Pool and Wheal Agar Mines, referred it is one.

Echoes" a short time since, has been concluded, and that the referred to in our referred to in our "Echoes" a short time since, has been concluded, and unavard is signed. At the moment of writing particulars have not transpired. It is a matter for congratulation to note that this long standing dispute has at last been settled in so amicable a manner. In old times the dispute between two mission would probably have ended in litigation (we all remember the South Frances and West Basset scandal), but now we live in the days of arbitration.

JAMES H. CROTTS.

From Mr. Alfred Edward Cooke (76, Old Broad-street, E.C.)—
Business in British mines has again been at a complete standstill: indeed, apar
from the fortnightly settlement, which was a very small one, it might be said that
there has been no feature in the market. The price of tin is still depressed, and
many good authorities, whose opinion is valued, prophecy that this stagnation
will continue for some time to come. It is admitted that there will be a tention
should rather be directed to lead mines, such as Roman Gravels, Tankerville,
Rookhope Valley, and others, which hold promise of success,
is at all times not subject to such violent fluctuations as the other metals. It is to
be hoped that after the resolution authorising the issue of additional capital for
West Tankerville is confirmed that the shareholders will readily come forward and
subscribe for their proportion. It is most desirable that operations should be
pushed forward with the tumost vigour, and with such promising—it may be aid
certain—prospects of success, the managers will, no doubt, prove that the result
they have so long predicted will be realised. Van Consols have advanced during
the week, and advantage should be taken of this rise, as another appeal to
for Rookhope Valley shares, and it is a noteworthy fact that they are from
heighbourhood of the mines. Many applications have been made for Glaisdale From Mr. Alfred Edward Cooke (76, Old Broad-street, E.C.)-

Whinstone Quarry shares. No doubt, the readers of the Mining Journal have perused the prospectus of this company which appeared last week. The quarry may be regarded as a permanent investment, and as such I can specially commend it to those who have probably a prejudice against going into speculative mines. There is no such risk here, the stona is discovered, the demand is great, and on payment of such risk here, the stona is discovered, the demand is great, and on payment of the allotment money there is no further liability. The shares are very low priced, being only 20s, fully paid.

I would advise intending investors to make immediate application for shares, as the list will soon close. With the exception of Emmas, which have declined, foreign mines have remained steady. The conflicting rumours which are rife concerning the Emma Mine render it hazardous to advance an opinion. All official reports from the mine are most discouraging, and even the staff at the London office venture to confirm them, and proffer gratitious advice to anyone who may call there. On the other hand, through private sources we learn that the mine is in the most satisfactory condition, and the statements put forward by the company are entirely contradicted. These maters should be sifted thoroughly at the first opportunity, when no doubt the example of the Flagstaff shareholders will be followed by appointing a special committee of investigation. When we except the American hydraulic mines, Richmond Consolidated may be said to be the only mine that has at all realised expectations. Nevertheless, I would even deprecate the purchase of these shares, seeing that no reliance can be placed on the soundness and stability of the American mines already before the public.

IN LIQUIDATION.

GOUROCK COPPER MINING COMPANY (LIMITED)

CLIMITED).

NOTICE.—ALL PERSONS having CLAIMS AGAINST the ABOVE COMPANY are requested to lodge the same with M. F. and J. DUNLOP, Solicitors, Greenock, on or before the 21st day of March next, to enable the Liquidators to DISTRIBUTE the ESTATE of the COMPANY realised by them among the parties entitled thereto, and to WIND-UP the AFFAIRS of the COMPANY.

And Notice is hereby further given, that the Liquidators will not be responsible to any person whose claim shall not have been lodged by the above date.

ANDREW HARPER, Liquidators.

Greenock, 26th February, 1874.

M. F. DUNLOP, Liquidators.

IN LIQUIDATION. THE BALLYCUMMISK COPPER MINING COMPANY (LIMITED).

NOTICE IS HEREBY GIVEN, that the LEASES of the OTICE IS HEREBY GIVEN, that the Edition of Edition in the county of Cork, together with the VALUABLE PLANT, MACHINERY, &c., are FOR SALE, BY TENDER.

Tenters are to be sent to Mr. J. H. R. Breckels, No. 6, Guildhall-chambers, in the City of London, Public Accountant, one of the Liquidators of the said company, on or before the 30th day of March instant, Full particulars and Forms of Tender can be obtained at the offices of the undersigned HARRISONS, 5, Walbrook, London. (Solicitors for the Liquidators.)

TO INVESTORS.

TWO SPLENDID OPPORTUNITIES SUCH AS ARE SELDOM MET WITH—the one, a COTTON SPINNING CONCERN, ready for IMMEDIATE WORKING, and stocked with the most VALUABLE MACHI NERY, principally new—the other, a LARGE IRONMONGERY BUSINESS, at present and for the past 22 years in ACTIVE TRADE, and which has always realised very large profits—ARE NOW OFFERING.

Boan fide investors only are invited to apply for interests therein. Adventitious investors, speculating with the object of receiving promotion money, will not be treated with.

Those only who desire to secure a permanent income and the control of the control

ted with.
lose only who desire to secure a permanent income on a moderate investment,
lapply personally, or address by letter—

MR. HALLAS, PUBLIC ACCOUNTANT, 32, FAULKNER STREET, MANCHESTER,

Who will furnish the fullest information, and to probable investors furnish letter of introduction to view the properties.

MINING IN SPAIN.

OWING to the present state of matters in Spain, several good MINES of IRON, ZINC, LEAD, and COPPER can be BOUGHT for a MERE NOMINAL SUM. As an investment these will pay handsomely with a little keeping.
Address, Mr. Woods, Santander, Spain.

FOR SALE, SUNDRY MINES IN SPAIN, suitable for small capitalists. Payment by instalments out of profits.

Apply to RICHARDSONS and WRIGHT, 35, Great St. Helens.

TO CAPITALISTS, AND OTHERS.

FOR SALE, on most favourable terms, a few CHOICE TRACTS of the most valuable COAL LANDS in WEST VIRGINIA, AMERICA, containing TEN or more SEAMS each of CANNEL, SPLINT, and BITUMINOUS COAL. Each seam being from Three to Eleven Feet in thickness, and easily accessible to railway and water transportation. The titles to the lands are perfect. Apply, by letter, to "W.Y.S.," Post Office, Box 458, Bradford, Yorkshire.

LEAD MINES IN THE COUNTIES OF DURHAM AND NORTHUMBERLAND.

TO BE LET. ON LEASE, with immediate possession, the HUNSTANWORTH AND NEWBIGGIN ROYALTIES the former about 3534 acres and the latter 200 acres, or thereabouts.

The Hunstanworth Royalty adjoins the celebrated W.B. Lead Mines, and has for many years yielded large quantities of lead ore, and much of the ground is undeveloped.

For particulars, apply to Joseph Dodds, Esq., M.P., No. 4, Spring-gardens,

developed.

For particulars, apply to Joseph Dodds, Esq., M.P., No. 4, Spring-garder Charing-cross, London, S.W., and Stockton-on-Tees; or Mr. Thomas J. Bewic C.E., No. 4, Queen-square, London, S.W., and Haydon Bridge, Northumberlan

MINING MACHINERY.

MESSRS. F. W. MICHELL AND CO. have FOR SALE several CORNISH PUMPING, STAMPING, and WINDING ENGINES, of different sizes. BOILERS from 6 to 12 tons each; PUTWORK of all sizes; CORNISH PRUSHERS; STAMP AXLES; IRON FLAT-RODS; STRAPPING PLATES; BOILERS from FLAT-RODS; STRAPPING PLATES; reent sizes; BOILERS from CRUSHERS; IRON FLAT ROOM CRUSHERS; STAMP AXLES; IRON FLAT ROOM, and other MATERIALS in general use in Mines, &c.

EAST CARN BREA, REDRUTH, CORNWALL.

FOR SALE, OR HIRE, the following NEW or SECONDHAND PLANT and MACHINERY, in thoroughly efficient condition:— VERTICAL ENGINES.

		VER	TICAL E	NGINES.		
	2 Vertical C	ombined Engin	es and Boi	lers	41/2 in. cylin	nder.
	1 ditto	ditto	ditto	***********		
	3 ditto		ditto	*********	6 ,,	
	ditto		ditto		61/2 "	
	3 ditto		ditto			
	1 ditte		ditto	*****	91/	
	- 41110	arte			0/3 "	
	n		FABLE E			
1	Portable Engin		inder. 6	Portable Engi		. cylinder.
î	ditto	614	4	ditto	103/4	12 .
3	ditto	634	1 0	ditto		cylinders.
3	ditto	71/2	9	ditto	2-81/2	2.5
10	ditto	834	1 9	ditto	2-914	**
				ING ENGINE	- /-	,,

2 Steam Cranes for 30 cwt. 2 to 3 tons (Chaplin). 3 to 4 tons (ditto). PUMPS.

ditto ditto 3 Woodford's Pumps, double ...

2 Mortar Mills, with 4 ft. pans. 5 Mortar Mills, with 7 ft. pans. 5 ditto 7 ft. 6 in. pans. 1 ditto 6 ditto 7 ft. 6 in. pans. 1 ditto 7 ft. pans. d ditto " 5 "

SAW BENCHES, &c.

1 Bench, 4 ft. × 2 ft., with 24 in. saw.
4 Benches, 5 ft. × 2 ft. 4 in., with 35 in. saw.
1 Bench, self-acting, 5 ft. × 2 ft. 9 in., with 32 in. saw, by Powis.
1 Bench, self-acting, 5 ft. × 2 ft. 9 in., with 32 in. saw, by Powis.
1 Wood planing Machine, by Robinson, 12 ft. × 15 in.
1 Hand Mortising Machine.
1 Grindtone Trough, for Moulding Irons.

2 Blowing Fans, 12 in.; 1 Iron Pug Mill, 4' 4" × 2' 0"; 1 Punching and Shearing Machine, for ½ in.; 1 ditto ditto, for ½ in.; 1 Creosoting Cylinder, 66 ft. × 5' 9" × ½ plates. &c., &c., &c., &c.

HENRY SYKES, 66, BANKSIDE, LONDON.

GUIDE TO INVESTORS.—MR. SPARGO'S "Guide to Investors" for the present month contains a tabulated statement of Banking, Mining, and other Companies, showing the depreciation in value during the last twelve months; and a price list of shares in Banks, Canals, Railways, Bridges, and Finance Companies up to Tuesday, the 3rd instant. It also contains articles on "Bulls and Bears," and their effects; Retrospect of 1873, and Prospects of 1874; the Revenue, our Position and Prospects; the Mine and the Rail; with necessary detailed information connected with the Stock and Share Markets, Mines, and Miscellaneona Companies. cessary detailed information connected with the Mines, and Miscellaneous Companies.

224 and 225, Greeham House, Old Broad-street, London, E.C.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACTS, 1862 and 1867, and of the OKEL TOR MINE COMPANY.—TO BE SOLD, BY PUBLIC AUTION, on Tuesday and Wednesday, the 17th and 18th days of March, 1874, at Eleven o'clock in the forenoon precisely on each day, at the Okel Tor Mine, in the parish of Calstock, within the said Stannaries, under the direction of the Registrar of the Court, in lots, the WHOLE of the VALUABLE and EXTENSIVE.

of the Court, in lots, the WHOLE of the VALUABLE and EXTENSIVE

MINING PLANT, MACHINERY, MATERIALS, AND EFFECTS,
belonging to the company, and now being within and upon the said mine, and
comprising, amongst numerous other effects,
50 in. cylinder PUMFING ENGINE, 10 ft. stroke.
22 in. double stamping BEAM ENGINE, 9 ft. stroke.
20 in. cylinder WINDING ENGINE, 5 ft. stroke.
ONE II ton BOILERS.
TWO 10 ton BOILERS.
Powerful Cornish crusher, with driving gear, &c., complete, eight arm capstan, oak axle, with span-beam, &c., 4 in. capstan, rope, shears, and pulleys, balance bob, 130 fms. 1 in. steel wire-rope, two 12 heads stamps axles, one six heads stamps with frames, lifters, heads, &c., complete, 123 fms. of pitwork, consisting of three 12 in. plunger-lifts, one 15 in. plunger-pole and case-working barrel, &c., 9 in. drawing gear, winding gear, four 12 ft. buddle wheels, two revolving calciners, 20 buddles, six tram wagons, three kibbles, several tons of bridge and other tranrails and suddles, a quantity of wood sheds, about 1000 fms. of launders, quantity of this kieves and dressing tools, lot of miners' chests, two small shaft bobs, 80 fms. 11/2 main rods, hammered iron rod plates, lot of ½ in. and \$\frac{1}{2}\$ in. chain, a quantity of the www.ought iron, screw stocks, plates, and taps, smiths' tools, two lifting jacks, two 3 in. screws, carpenters' beach, three sets of seales and weights, mine bell, and the office furniture.

The mine having been worked only a limited number of years the machinery and materials have had but little wear, and are, consequently, in excellent condition, and, it being situated on the banks of the River Tamar, unusual facilities for the removal of the materials by water are offered.

For further particulars apply to the official liquidator, Mr. Charles Lee, Nicholas, No. I, Gresham-buildings, Busing

In the Court of the Vice-Warden of the Stannaries.

IN the MATTER of the COMPANIES ACT, 1862, and of the PROSPER UNITED MINING COMPANY.—By direction of His Honor the Vice-Warden, Notice is hereby given, that on Thursday, the 28th day of March instant, at Eleven o'clock in the forenon, at the Registrar's office, in Truro, in the county of Cornwall, this Court will proceed to MAKE a CALL of TWELVE SHILLINGS PER SHARE on all the contributories settled as present members on the List of Contributories of the said company.

All persons interested therein are entitled to attend at the time and place above mentioned, to offer objections to such call.

CHARLES WILLIAM CLINTON, Official Liquidator.

Dated Stannaries Court Office, Truro, 12th March, 1874.

SPEARNE CONSOLS MINE, ST. JUST, CORNWALL

ALEXANDER BERRIMAN is instructed to SELL, BY PUBLIC AUCTION, at the Account house on the Mine, on Monday, the of March, 1874, at Two P.M.,

THE SPEARNE CONSOLS MINE (AS A GOING CONCERN).

AS A GOING CONCERN).

The MACHINERY consists of -ONE 26 in. cylinder PUMPING ENGINE, with ONE 50 ton BOILER; ONE 20 in. cylinder WINDING ENGINE, with 5 tons BOILER; 175 fms. of PITWORK; 4 in. and 5 in. PUMPS; together with all the MATERIALS and PLANT thereon.

For viewing the above, and for further particulars, apply on the mine, and to Mr. RICHARD WHITE, Trevellard, St. Just.

Dated St. Just, March 3, 1874.

TO COAL AND IRONMASTERS AND CAPITALISTS

SALE of IMPORTANT and VALUABLE MINES and MINERALS, at GREAT WYRLEY, CHURCHBRIDGE, and RUMER HILL, in the parish of CAN NOCK, in the county of STAFFORD.

R. J. U. FELLOWS WILL SELL, BY AUCTION, at the Swan Hotel, Wolverhampton, on Wednesday, the 25th day of March, 1874, at Three for Four o clock in the afternoon, subject to conditions, and in three or such other lots as may be agreed upon at the time of sale, upwards of 70 acres of VALUABLE MINES OF COAL AND IRONSTONE,

AND IRONSTONE, as follows:

PARTICULARS.

Lot 1.—All the MINES of COAL and IRONSTONE, lying and being under 59A. 3R. 2TP. of land, situate in the parishes of Cannock and Great Wyrley, and coloured pink on the plan.

This lot adjoins the collieries of the Mid-Cannock Colliery and the Great Wyrley. Colliery Company, and lands of Messrs. P. Williams and Co., and is conveniently intersected by the Birmingham Canal, and the Cannock Mineral Railway. It is also adjacent to the Churchbridge Ironworks, belonging to Messrs. William Gilpin, sen., and Co., and immediately contiguous to the Watling-street turnpike road and the road leading from Cannock to Walsall.

Lot 2.—All the MINES of COAL and IRONSTONE lying and being under 12A. 0R. 28P. of land at Great Wyrley, Cannock, and coloured blue on the plan.

The Cannock Mineral Railway also runs through this lot, which adjoins the Wyrley Railway Station, and is bounded by lands and mines belonging to Messrs. William Gilpin, sen., and Co., W. Charles, Esq., Bernard Gilpin, Esq., J. N. Bagnall, Esq., and others.

Lot 3.—All the MINES of COAL and IRONSTONE lying and being under 4A. IR. 38P. of land situate at Rumer Hill, Cannock, and coloured green on the plan. This lot lies between the collieries of the Mid-Cannock Colliery Company and the Cannock and Leacroft Colliery Company, and within about 100 yards of the Birmingham Canal.

The purchasers of either lot will be entitled to use such available portions of the force.

Cannock and Leacroft Colliery Company, and within about 100 yards of the Birmingham Canal.

The purchasers of either lot will be entitled to use such available portions of the surface as may be required for colliery purposes on compensating Mr. Bettson, the owner and occupier thereof, after the rate of £4 per acre per annum.

Byery confidence is felt in offering the above mines to the notice of those who are seeking to invest their capital in mining enterprise, and the mines on all sides of the several lots having been proved, and large quantities of coal and ironstone daily raised from the adjoining collieries enhances the value of the lots now offered for sale. The purchase money can be paid by instalments, one-third down and she remainder extending over a period of four years.

For viewing the estate, application is to be made to Mr. Battson, and printed particulars and plans, with any further information, may be obtained on application to Mr. James Priors, solicitor, and Mr. Wookcock, surveyor, both of Darlington-street, Wolverhampton; or to the Auctioneer, 7, Victoria Chambers, Brad ford-street, Walsall.

VERY VALUABLE MINE MACHINERY AND MATERIALS FOR SALE, AT NORTH ROSKEAR MINE, CAMBORNE, CORNWALL.

R. T. T. WHEAR, Auctioneer, Camborne, has been favoured with instructions to SELL BY PUBLIC AUCTION, at the Account of North Roskear Mine, near the town of Camborne, on Wednesday, the March, 1874, the WHOLE of the FIRST CLASS

MACHINERY AND MATERIALS, consisting of-

MACHINERY AND MATERIALS, consisting of—
ONE 70 in, cylinder PUMPING ENGINE, 10 ft. stroke in cylinder, and 8 ft. stroke in shaft, with metallic piston, and THREE 13 ton BOILERS, with steam pipes and fittings complete, with one cast iron balance bob at the surface.
ONE 36 in. STEAM STAMPING ENGINE, 9 ft. stroke, with two fly wheels, 24 ft. 6 in. in diameter: SIX 16 head STAMPS AXLES and HEADS, with lifters, &c., complete, and TWO 12 ton BOILERS, and fittings complete. This engine was made by Messrs. Harvey and Co., of Hayle, and is nearly equal to new. ONE 24 in. WINDING ENGINE, metallic piston, 6 ft. stroke, with ONE 10 ton BOILER, heavy iron oage, &c.
ONE 25 in. STEAM WINDING ENGINE, 19 ft. fly wheel, with wrought iron axle, 6 ft. stroke, with ONE 10 ton BOILER, and whim cage for wire rops. This engine was also made by Messrs. Harvey and Co., and is nearly equal to new.
ONE 16 in. ENGINE, 4 ft. stroke, with two fly wheels, and 8 ton BOILER, gear for whim with iron cage, crusher, and saw machine attached.
350 fms. of pitwork, principally in plunger lifts, and varying from 7 in. to 16 in. in diameter, strapping plates, bolts, &c.; also, main rods and a large quantity of iron; upwards of 600 fathoms of steel wire rope (mostly new), chain, punching machine, rail iron, smiths' tools, small engine turning lathe, &c., in fitting shop; I water wheel, 3ft. diameter, 500 fathoms of iron stave ladders; underground balance bobs and connections; together with a large quantity of other materials in general use in mines, particulars of which will be found in catalogues.
The WHOLE of the EXTENSIVE and VALUABLE TIN DRESSING FLOORS, with TRIKEE CALCINERS, complete—the whole of this has been recently laid down in the best possible manner, and embracing all the most modern and approved appliances.

with THREE CALCINERS, complete—the whole of this has been recently laid down in the best possible manner, and embracing all the most modern and approved appliances.

The whole of the plant will be found of a superior description, and will first be offered, together with a promise of a new lease of the mine, in One Lot, and if not so sold will be offered in lots, to suit the convenience of purchasers, on the same day.

For viewing the above apply on the mine, and for further particulars to Mr. T. PRYOR, Redruth; Capt. JOSIAH THOMAS, Dolcoath Mine, Camborne, Cornwall; or to the Auctioneer, at his offices, Camborne.

Luncheon at Eleven octock. Sale to commence at Twelve precisely. Dated March 12th, 1874.

POR SALE, an excellent 60-horse high-pressure HORIZONTAL STEAM ENGINE, 30 in. cylinder, 5 ft. stroke, with TWO spherical-ended cylindrical BOILERS, 42 ft. long and 5 ft. diameter. Also TWO SETS of 18 in. PIT PUMPS, about 200 ft. long each, with double bell crank, connecting rod, and spears and gear complete. A 10 in. double action FORCE PUMP is attached to the engine, which can be detached, or otherwise.

Application to be made to Thomas Hawksley, Esq., C.E., 30, Great George street, Westminster; or to Mr. Loan, at the Waterworks Office, Nottingham.

N.B.—The articles above mentioned have been used for sinking a large shaft, and are peculiarly well adapted for COLLIERY and other MINING PURPOSES.

FOR SALE, ready for immediate delivery, ONE NEW STEAM DONKEY FEED PUMP; inverted cylinder 10 in. diameter by 12 in. stroke, working a 6 in. diameter brass plunger, chamber brass lined, valves brass. For price and particulars, apply to Prascop and Taylor, Engineers, &c., 44, Dean-street, Newcastle on Tyne.

THE GUNPOWDER MILLS, EWELL, SURREY,

THE GUNPOWDER MILLS, EWELL, SURREY,
With the valuable PLANT and MACHINERY, equal to the manufacture of
20 tons of black powder, or 10 tons of sporting powder, per week. With possession.

MESSRS. FULLER, HORSEY, SON, AND CO. are instructed
by the Patent Gunpowder Company (Limited) to SELL, BY AUCTION,
at the Mart, Tokenhouse yard, on Wednesday, April 22, at One o'clock precisely,
in One Lot, the old established and weil-known GUNPOWDER MILLS, situate
EW.LL, SURREY, on the Hog's Mill River, which rises a short distance from the
property, and flows into the Thames at Kingston, and from which the motive-power
is derived: together with the whole of the fixed PLANT and MACHINERY.
The property comprises the UPPER and LOWER MILLS, consisting of SIX
DETACHED BUILDINGS, fitted with FIVE PAIRS IRON FACED GRANITE
EDGE RUNNERS, driven by THREE breast-shot WAFER-WHEELS; INCOR
PORATING MILLS, with FOUR PAIRS IRON-FACED GRANITE EDGE
RUNNERS, and TWO PAIRS CAST-IRON EDGE RUNNERS, driven by a
30 horse power HORIZONTAL DOUBLE CYLINDER CONDENSING STEAMENGINE, by Easton and Ames, with shafting and gearing; a brick built steamengine house, brick-built boiler-house, with TWO CORNISH BOILERS; two
newly-serected substantial brick buildings, intended for workshops, each 80 ft. 6 in.
by 27 ft. 6 in.; CORNING HOUSE, with breaking rollers, elevators, &c., driven by
a breast-shot WATER-WHEEL; brick-built store; 24 ft. by 23 ft., with preh end
landing-place for boat; press-house, fitted with HYDRAULIC PRESS, 12-Inch
ram; beating engine house, with BEATING ENGINE, 12 ft. long by 6 ft. wide,
driven by a separate WATER-WHEEL; BREAKING MACHINE and HYDIRAULIC PRESS, and CHARCOAL MILL, driven by a 6-horse power HORIZONTAL STEAM ENGINE, and complete on the workshops, and promote one workshops, and clink with from hot-water pipes and boilers adjoining: a new
brick-built magazine, 24 feet square; composition house, with PAIR GRANITE
EDGE RUNNERS, and CHARCOAL MILL, driven by a 6-horse power HORIZONTAL STEAM ENGINE, and the not-water pipes a

The workmen.

The entire estate, including garden, meadow and arable land, and water, covers a total area of 73A. 1 R. 2 P., or thereabouts.

The buildings are well arranged, principally detached, and spread over the works at convenient and judicious distances; and the powder is conveyed from one part of the works to the other entirely by water carriage.

The whole held on lease for a term of 15½ years, from June 24, 1872, at the very low rent of £488 6s. 8d. per annum, to include the use of the machinery.

Printed partrealars, with plans and schedules of the machinery, are in preparation, and, when ready, may be had of Messrs. EUMSLE, FORSYTH, and SEDGWICK, 27, Leadenhall-street, E.C.; at the Mart; and of Messrs. FULLER, HORSEY, SOX, and Co., 11, Billiter square, London, E.C.

and Co., 11, Billiter square, London, E.C.

TO COALMASTERS, CAPITALISTS, AND OTHERS.

TO BE OFFERED FOR SALE, BY PUBLIC AUCTION, at the Wellington Hotel, in Leicester, by Messes. DAVENPORT, GERMAN, AND ALLEN, on Thursday, the 26th day of March, 1874, at Four o'clock in the afternoon precisely, subject to conditions to be then produced, ALL the MINES, BEDS, and SEAMS of COAL and all other MINES and MINERALS, situates and being within and under all those several CLOSES, PIECES, or PARCELS of LAND, forming a compact estate, and containing 170A. 2R. 24P., or thereabouts, situate at HSSTOCK, in the county of LEICESTER.

Also, the right of pre-emption or privilege of purchasing certain specific parts of the surface of the before-mentioned estate (at the price or sum of £120 an acre), to enable the purchaser of the mines to develope and work the same.

The property is eligibily situated in the immediate pelghbourhood of colliery works, being bounded on one side by the lands belonging to the Ibstock Colliery works, being bounded on one side by the lands belonging to the Ibstock Colliery works, being bounded on one side by the lands belonging to the Ibstock Colliery works, being bounded on other side by mines leased to the Heather New Colhery, now in course of sinking.

The estate is within a short distance of the Heather Station of the Ashby and Nuneaton Railway.

Plans with full particulars, may be obtained fourteen days prior to the sale on

in course of sinking.

The estate is within a short distance of the Heather Station of the Ashby and Numeator. Railway.

Plans, with full particulars, may be obtained fourteen days prior to the sale on application to the Auctioneers, Messrs. SMITH AND MAMMATT, or Messrs. PISHER, AND CHEATLE, Solicitors, all of Ashby-de-la-Zouch.

For further particulars and to view the surface, application to be made to Mr. RICHARD THIRLBY, Mr. BENJAMIN THIRLBY, or Mr. JOSEPH CLARKE, all of Ibstock, or of Mr. JOSEPH SHERWIN, Burton-on-Trent.

BALDWIN MINE, ISLE OF MAN. TO CAPITALISTS, MINING INVESTORS, AND PROMOTERS
OF PUBLIC COMPANIES.

TO BE SOLD, BY PUBLIC AUCTION (unless otherwise previously disposed of by private treaty), at the British Hotel, Douglas, Isle of Man, on Wednesday, the 1st day of April, 1874, the SILVER-LEAD AND BLENDE MINE, known as

BLENDE MINE, known as

THE BALDWIN MINE.

Situate at BALDWIN, near DOUGLAS, ISLE OF MAN, together with the PLANT, MACHINERY, TOOLS, and STORES in and about the said mine. The mine is in full working order, and can be entered upon at once, two north and south lodes have been opened out to a depth of 77 fms., and proved to contain a continuous and well-defined run of ore, which has increased in value from the surface downwards to the present lowest level, and from which returns of ore have been made.

been made.

The above will be offered in One Lot, or the vendors will, to suit purchasers, offer the concern in Two Lots, as follows:—

Lot I.—The MINING SETT, containing 1050 acres, or thereabouts, which the vendors hold under a lease from the Crown; the water supply is ample, and is also secared by lease. This Lot will be offered subject to the conditions contained in the said leases.

secured by lease. This Lot win be offered subject to the conductors contained in the said leases.

Lot II.—The WHOLE of the PLANT, MACHINERY, TOOLS, and STORES in and about the said mine, and consisting of ONE WATER-WHEEL, 24 ft. diameter, and 4 ft. 6 in. breast, with 64 fms. of pumping and lifting gear, complete; ONE DRAWING MACHINE, with patent friction coupling; 120 fms. wire rope, head gear, and sheaves; 350 fms. wagon roads, plated with iron; miners' tools, including 290 ft. cast steel jumpers, wedges, &c. i iron blocks, and about 40 fathoms strong cable chain; a good assortment of smiths' and mechanics' tools; and all the necessary plant and pitwork for working the mine.

The mine has been frequently inspected by mining engineers, Capt. Rowe, late of Great Laxey, amongst others, the following being a copy of his last report;—

BALDWIN MINE.

BALDWIN MINE.

BALDWIN MINE.

The Great Lakey Mining Company (Limited),
Lakey, Isle of Man, 12th June, 1872.

Dear Sir,—In continuation of my report to you on the Baldwin Mine, dated the
5th instant, I wish to add that, if you carry out vigorously, with proper mining
skill, the plan of working I have indicated in that report, I know of no more legitimate undertaking in a mining sense, or one possessing better chances of ultimate
success. I base my reasons upon the following short: summary of facts:—The
north and sonth lodes exist in proper form, their bearings and dip are all right for
the production of large bodies of ore, and there is present in no small degree the
uecessary feeding cause—that of a large cast and west cross-course, which, judging
by exactly similar circumstances in our Great Laxey Mines, can scarcely fall in
causing the north and south lodes to become steadily productive and valuable at
an increased depth.—T. B. Collingwood, Esq.

R. ROWE.

TO PROMOTERS OF PUBLIC COMPANIES The VENDORS are OPEN to TREAT with CAPITALISTS who can organise a Limited Company to continue the workings of the above mine, in which case areangements may be made for the whole of the purchase-money to be paid in fully paid-up spares of such company when formed.

Orders to view the mine may be obtained on application to Mr. WM. BERRY, 50, North Quay, Douglas, Isle of Man; or to Mr. T. B. COLLINGWOOD, Summercastle, Rochdale, irom whom any further information may also be had.

KESWICK, CUMBERLAND.

VALUABLE LARCH TIMBER FOR SALE.

VALUABLE LARCH TIMBER FOR SALE.

TO BE SOLD, BY PRIVATE TENDER, the whole of the very excellent LARCH TIMBER TREES, of upwards of sixty years' growth (fresh marked with white paint), now growing in the GILTS COPPICE PLANTATION, on the LONSCALE ESTATE, near KESWICK.

James Newton, Swill Manufacturer, Keswick, will show the wood, and tenders must be sent in for the whole and per foot on or before Tuesday, the 7th day of April next, to Mr. GARNETT, Estate Agent, Ambleside, from whom conditions and all further particulars may be obtained.

The vendors do not pledge themselves to accept the highest or any tender. Ambleside, February 25th, 1874.

FINE OPPORTUNITY FOR MAKING A FORTUNE. TO BE SOLD, PART or ENTIRE (former preferred) of a COLLIERY ROYALTY, of about 170 acres, in NORTH WALES. The pit is sunk 40 yards deep to the seam containing the best description of Cannel. There are six other seams of good coal (the first being King Coal, only 14 yards under it) known to be beneath this seam. Its situation being half a mile from a railway station, and also admirably adapted for land sale, close to excellent roads, the working expenses, royalty, rent, and outlay small for a probable get in a few weeks working expenses, royalty, rent, and outlay smal lfor a probable get in a tew weeks of 400 tors daily at an almost fabulous profit, render the present undertaking one well worthy the immediate attention of capitalists, coal dealers, gas manufacturers, r colliery proprietors.

Address, "Q. E. D.," care of Mr. Watson, 15, Fenwick-street, Liverpool.

O BE SOLD, a SECOND-HAND PAIR of MARINE ENGINES, inverted cylinders, low pressure; have two cylinders each, 30 in diameter, 2 ft. stroke, with separate expansion valves; are in good condition, having done little work, and will be guaranteed complete in all parts. Would make a first class pair of winding engines, having quadrant reversing motion.

Address, 'R.,' 134, Boundary-street, Liverpool.

NEW PAIR HORIZONTAL WINDING ENGINES FOR SALE, 13½ in. cylinder, 30 in. stroke, 6 ft. drum—instant delivery.

JOHN MOORE, 40, Lloyd-street, Albert-square, Manchester.

TO COLLIERY PROPRIETORS, AND OTHERS.

PIT SINKING.

FOR SALE, and ready for immediate delivery), a 14, 18, 25, and 35 horse power PORTABLE STEAM ENGINE, with link metion

with Direct power Ventable Sales.

WINDING DRUM, GEAR, &c., complete.

Also, a 6-horse power VERTICAL ENGINE, with link motion reversing good suitable for mining operations.

FOR SALE—An excellent PORTABLE STEAM ENGINES; and a 7 ft. PAN MORTAR MILL.

Apply to—

BARROWS AND STEWART, ENGINEERS, BANBURY.

FOR 1873.

POST FREE, TWO SHILLINGS, IN STAMPS,

BAILEY'S

ILLUSTRATED INVENTIONS,

(Sixteenth edition), 25th thousand, 1000 engravings, 150 pages, weight 10 ounces illuminated covers. Published at a great cost by

J. BAILEY AND CO., INVENTORS, PATENTEES, BRASSFOUNDERS,

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For Cotton Spinners, Railway Companies, Engineers, Colliery Proprietors, and nearly every description of Employers of Labour, County Gentlemen, &c., &c.;

ALSO OF EVERY DESCRIPTION OF

ENGINE AND BOILER FITTINGS.

PYROMETER INVENTORS AND PATENTEES;

ELECTRIC TELEGRAPH ENGINEERS

TURRET CLOCK MAKERS;

Makers of the celebrated AUTOMATIC CLOCKS,

For indicating the pressure of steam day and night, rise and fall of the tide, &c.

Winding Indicators, Signal Bells,

DEPARTMENTS:

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II -ENGINEERS' SUNDRIES DEPARTMENT.

III .- SMALL MACHINE, PUMP, AND FIRE ENGINE, &c., &c., DEPARTMENT.

IV.—CLOCK DEPARTMENT.

V .- ELECTRIC TELEGRAPH DEPARTMENT.

All profusely illustrated, described, and priced.

J. BAILEY AND CO., ALBION WORKS.

SALFORD,

MANCHESTER.

The above is sent free to Working Men's Clubs, Mechanics Institutions, or Improvement Societies.

BAILEY'S SPECIALITIES FOR 1873.

FEEDING BOILER

THE GRINDROD BOILER FEEDER.

Which keeps the water at one definite height day and night. MUCH IN USE IN THIS DISTRICT.

STILWELL WATER HEATER

LIME EXTRACTOR.

THE HALLAM GIFFARD INJECTOR.

> These are all high-class inventions, and are with confidence recommended.

CIRCULARS O APPLICATION.

thanks for the great patronage bestowed and confidence reposed in their firm for upwards of 30 years, and to assure their friends and clients it will be their earnest endeavour to merit a continuance of both.

In the year 1843, when Cornish mining was almost unknown to the general public, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1847, and published in 1843, by Mr. J. Y. WATSON, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (is econd series, 1863), "The Progress of Mining," with Statistics of the Mining Interest, annually for 21 years, &c., &c. In the Conpendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring the success in the aggregate," and Messrs. WATSON BROTHERS have always a selected list on hand. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and sharedealing than there is at present; and, from the lengthened experience of Messrs. WATSON BROTHERS, they are emboldened to offer, thus publicly, their best services to all connected with the mining interest.

Messrs. WATSON BROTHERS are daily asked their opinion of particular

emboldened to offer, thus publicly, their best services to all connected with the mining interest.

Messrs. WATSON BROTHERS are daily asked their opinion of particular mines, as well as to recommend mines to invest or speculate in, and they give their advice and recommend mines to the best of their judgment and ability, founded on the best practical advice they can obtain from the mining districts, but they will not be held responsible, nor subject to blame, if results do not always equal the expectations they may have held out in a property so fluctuating as mining.

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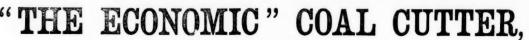
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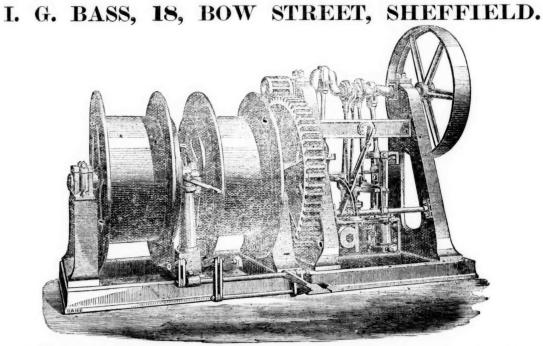
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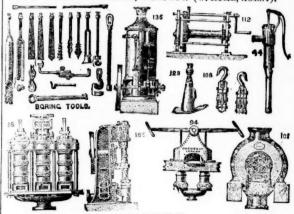
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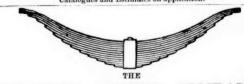
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gres, Mine	Paid.	DEND MINES. Last Pr. Clos. Pr. Tota	d divt. Per share Last rai	18000	Aberdaunant, l , Llanidloes* 1 0 0 Aberystwith, s - l , Cardigan 4 0 0 Ambrose Lake, t , c * 1 10 0 Assheton, l , Carnarvonshire* 5 0	3 214 3	1 1 2 3 1 3 3 3 5 5 5 5 5 5 5
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5500 Blaen Caelan, s-t, 18000 Boscaswell Downs 200 Botallack, t, c, St.	ybont" 2 0 0 an, Devon" 1 0 0 Cardigan" (£4 sh.) 3 10 0 Cardigan" (£4 sh.) 3 10 0 Just 116 5 0 Just 116 5 0 Just 116 5 0 Ockfastleigh 116 0 certain 2 10 0 ockfastleigh 2 0 0 certain 2 10 0 ockfastleigh 2 0 0 ockfastleigh 1 16 0 ockfastleigh 1 16 0 ockfastleigh 2 10	1 1 0	10 9 187 15 0 5 0 0 Aug. 187	1 25000 5000	Balmynhear, t, Wendron 3 18 Bediford Consols, c, Tavistock 1 7 Bediford Consols, c, Tavistock 1 7 Bediford Consols, c, Tavistock 1 16 Belstone, * r, Devonshire 1 0 Blue Hills, t, c, St. Agnes 1 19 Bog, t, Shropshire* (1000 reserve) 2 0 Bogd, t, Shropshire* (1000 reserve) 1 10 Bowden Hill, * ma (7000 sh. £! pd.) 0 15 Bryn Royalton, t, Reche* 2 0 Bryn Royalton, t, t, c, bl, St. Agnes 1 0 Bryn Burra, * t, c, bl, Kenwyn 1 0 Burraw Burra, * t, c, bl, Kenwyn 1 0 Burrah Burra, * t, Cardigan* (£6 sh.) 4 16 Cac Gynon, t, Cardigans* (£6 sh.) 4 16 Caldbeck Fells, t, Cumberland* 2 0 Calddbeck Fells, t, Cumberland* 2 0 Carradonand Phenix Consols, c 1 0 Cern Brwyno (lim, to £5 5 0 Cern Brwyn, c t, t, Laindidoes 5 0 Cern Consols, t, Flintshire* 5 0 Cerntral Van, t, Radnorshire* 1 0 Cwm Rian, t, Radnorshire* 1 0 Cwm Riant, t, Radnorshire* 1 0 Cwm Riant, t, Radnorshire* 1 0 Cwm Riant, t, Radnorshire* 1 0 Cwm Riant Ddu, t, Montgomery 1 0 Cwm Riant Park, t, c, Tavistock 2 0 Deer Park, t, c, Tavistock 2 0 Deer Park, t, c, Cardiganshire 6 0 Ding Dong, t, Gulval 9 14 6 Dolwen Consols, t, Cardigan* 1 0	5 1¼1 1¼ 5 1¾1½ 1¾ 3 ½ ¾ ½	7500 Tresellyn, t, Altarnun
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5400 Cashwell, <i>t</i> , Cumb 7500 Castle-an-Dinas, <i>t</i> , 1000 Carn Brea, <i>c</i> , <i>t</i> , Ill	erland* 2 10 0 , St. Columb* 2 0 0 logan† 35 0 0	= 1 35 23½ 27½ 308	4 0 0 4 0Aug. 187. 10 0 0 2 0July 187. 0 0 1 0 0Feb. 187.	30000 30000 20000	Brynn,* t, St. Austell) —) —) 13611/4 13/4	25000 Vron United, s-l, Flintshire 1 0 0 30000 Welsh, l, Cardigan* 1 0 0 6000 West Basset, c, Illogan†1 3 16 8 6
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000 Trumpet Consols, 000 Van, l, Llanidloes* 000 W. Chiverton, l, P	t, Helston 6 5 0 cerranzabulet 10 0 cerranzabulet 10 0 0 c	4½ 1 1½ 9 35 30 32½ 11 5 4½ 5½ 52	11 0 0 10 0Nov. 1872 17 0 0 15 0Dec. 1873 10 0 0 5 0June 1873	12800 J	Florence and Tonkin United* l 0 10 0. Florida, s - l , Cardiganshire* 3 0 0.		10000 Wood Close & Polgooth, t, St. Mew.* 2 10 0 — 1200 Zennor, t, Cornwall
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000 Wheal Russell, c, 7 356 Wheai Seton, t, c, 000 Wheal Tregoss,* t,	Camborne 1 0 0	12½ 7 9 258 0	5 0 0 1 0June 1871 5 0 0 10 0Oct. 1873 1 0 0 1 0Jan. 1873	10000 G 30000 G 128 G	Han Severn, s-l, Flintshire	11/8 1 11/8	15 Albion Steel and Wire Co. [L.] 7 10 0 6½ 5 Altami Colliery Co. [L.] 5 0 0 par 100 Ashbury Co. [L.] 90 0 0 30 1 10 Bagnall, John, and Sons [L.] 10 0 0 1½ 5 Bath Colliery Co. [L.] 4 0 0 1½ 5 Bath Colliery Co. [L.] 2 10 0 2½ 10 Benhar Coal Co. [L.] 10 0 0 5½ 50 Bilaenavon Iron and Steel Co. [L.] 37 10 0 2½ 50 Blaenavon Iron and Steel Co. [L.] 37 10 0 2½ 50 Blochair Irox [Co. [L.] 37 10 0 2½
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000 Australian, c, Bout 000 Battle Mountain,* 000 Birdseye Creek, g,	th Australia† 7 7 8 6 6240 part pd.) 5 0 0 California* 4 0 0 any* 10 0 0 5 0 0 0 4 5 0 0 0 4 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3½ 3½ 3½ 0 8 7 8 0	11 6 0 2 0July 1873 10 0 0 10 0Nov. 1872 9 0 0 2 0July 1873 17 4 0 8 0July 1873	25000 (4400 (4096 (Freat Bracfell, l, Isle of Man	. =	5 Brynkinalt Collievies [L.]
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1000 Central American 1500 Chicago, s, Utah* 1000 Colorado Terrible,	Association*7 0 15 0 7 0 0 7 0 0 5 0 0 6 0 0 6 0 0 6 0 0 6 0 0 0 0	0 0 4 33/4 4 0 5/8 3/6 5/8 2	6 0 0 1 0July 1869 16 0 0 4 0Sept. 1873 8 0 0 2 0Oct. 1871 5 9 0 2 0Mar. 1872	12000 I 6000 I	10bb's Hill (£2), t, St. Neot*	1 3/4 1	10 Cardigan Steel and Wire Co. [L.] 3 10 0 23/ 10 Central Swedish Iron and Steel [L.], 10 0 0 7 50 Charlton Iron Co. [L.]
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000 English and Austra 000 Ferguson, g, Califo 000 Flagstaff, s, Utah*	alian, c† 8. Aust. 2 10 0	134. 134 134 2 3 234 3 4	7 3 0 2 6Mar. 1873 3 0 0 3 0April 1872 2 0 0 5 0July 1873	20000 I 20000 I 30000 I	danarmon, Denbigh 2 0 0. danidloes Wh. Van,* l, Montgomery 1 0 0. danrwst, l, Carnaryon 2 0 0.	1½ 2¼2¼ 2¾	1 Consett Spanish Ore [L.] 1 0 0 1 50 Cooke, William, and Co. [L.] 10 0 0 3 20 Darlington Iron Co. [L.] 8 0 0 3
000 Fortuna, t, Spain 1 000 Gold Run, hyd 000 Kapunda Mining C	1 0 0 Co. Australia† 1 3 0 tah 5 0 0	34 34 0 34 36 0 114 1 114 0	19 4 0 5 0 Dec. 1873 2 4 0 0 4 Oct. 1872 2 4 0 0 6 June 1873 14 0 0 2 0 July 1875	6000 I 9000 M	Hynelys Unit., l, c, ozide, Salop. 2 0 0. Harke Valley, c, Caradon* 4 16 6 Hedlyn Moor, t, Wendron 0 5 10	% ·· 5/8 3/4	10 Davis's Merthyr Collery Co. [L.] 10 0 0 15 Davy Brothers [L.] 10 0 0 13½ 1 32 Ebbw Vale Co. [L.] 29 0 0 6½ 25 25 25 25 25 25 25 25 25 25 25 25 25 2
000 Linares, I, Spain*† 837 Lusitanian, Portug 000 Mammoth Copper	gal*† (£5 shares). 3 0 0 opolis of Utah, c, s 10 0 0	4½ 3¾ 4½ 14 1¼ 1½ 1½ 1 4 2½ 3 0	3 4 0 2 6Dec. 1873 11 6 0 1 6Mar. 1873 5 0 0 5 0Dec. 1872	8000 M 11000 M 25000 M	fellanear, c, Hayle* 4 0 0 felindur Valley, s-l, Cardigan* (£3) 3 0 0 fount Dalby, s-l, Isle of Man* 1 0 0	31/2 3 31/4	20 General Mining Association [L.] 20 0 0 11 1 10 Glasgow Port Washington [L.] 3 10 0 2½ 2 Gwyngwillim Colliery Co. [L.] 2 0 0 ½ di
5000 Mountain Chief, s, 5000 Prussian Mining & 5000 Pontgiband, s-i, Fr	Trancet 20 0 0	= 0 = 20 22 14 ½ ½ 1	16 11 . 1 3 0 Dec 1873	4000 N 2000 N	inty, l, Montgomeryshire*	½ ¼ ½ 8¼8¼ 8¾	1 Clee Hill Colliery Co. [L.] 1 0 0 1½ 10 Consett Fron Co. [L.] 7 10 0 20½ 11 Consett Spanish Ore [L.] 1 0 0 2½ 12 Consett Spanish Ore [L.] 1 0 0 2½ 50 Cooke, William, and Co. [L.] 10 0 0 3 20 Darlington Iron Co. [L.] 10 0 0 3 10 Davis's Merthyr Colliery Co. [L.] 10 0 0 13½ 132 Ebbw Yale Co. [L.] 29 0 0 6½ 6 Fairbairn Engineering 5 5 0 0 1½ 20 General Mining Association [L.] 20 0 0 1½ 10 Glaggow Port Washington [L.] 20 0 0 1½ 2 Gwyngwillim Colliery Co. [L.] 2 0 0 ½ 15 Hopkins, Gilkes, and Co. [L.] 2 0 0 ½ 16 Hopkins, Gilkes, and Co. [L.] 2 10 0 ½ 16 Ince Rolling Mills [L.] 2 10 0 ½ 17 Ince Rolling Mills [L.] 2 10 0 ½ 18 Knowles, Andrew, and Sons [L.] 12 0 0 ½ 19 Llay Hall Coal, Iron, & Firebrick [L.] 10 0 0 2½ 10 Llay Hall Coal, Iron, & Firebrick [L.] 10 0 0 25 15 Littledean Woodside Coll. Co. [L.] 5 0 0 4
1000 Richmond Consols 1000 Scottish Australian 1500 Sierra Buttes, g, C	t 2 0 0 Co. Australiat 1 3 0 Co. Australiat 1 3 0 tah 5 0 0 gal*† (£5 shares). 3 0 0 opolis of Utah, c, s 10 0 0 , Utah* 10 0 0 Tronworks, cf, 1 30 0 0 rancet 2 0 0 0 mas*† 1 1 0 0 , s, Nevada*† 5 0 0 alifornia*† 2 0 0 alifornia*† 2 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	8 0 0 1 0Jan. 1872 7 6 0 10 0Jan. 1874 per centNov. 1873 8 0 0 2 0Dec. 1873	2450 N 8000 N 4096 N	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1½ 1 1½ 1 1½	10 Llay Hall Coal, Iron, & Firebrick [L.] 10 0 0 pa 5 Littledean Woodside Coll. Co. [L.] 5 0 0 5 10 Llynvi, Ogmore, & Tondu Co. [L.] 42 0 0 4
000 South Aurora, s, N 000 Sweetland Creek, 9 000 Tolima, g, s* (6000	Sevada*	4½ 4½.5 0 1 4 3 3½ 0	14 2 0 2 0Nov. 1873 8 0 0 5 0Dec. 1873 5 0 0 2 6Nov. 1872	8400 8	Yew Hendra, t, Breage 1 16 0. 1 16 0. 5 4 0. 1 16 0. 5 4 0. 1 16 0. 5 4 0. 1 16 0. 5 4 0. 1 16 0. 5 0. 1 16 0. 5 0. 1 16 0. 5 0. 1 16 0. 5 0. 1 16 0. 6 0. 1 1 16	13/	10 Lydney and Wigpool Iron Ore [L.]. 7 5 0 2½ 10 Marbella Iron Ore Co. [L.] 10 0 0 0 5½ 10 Merry and Cuninghame [L.] 3 10 0 ½
000 Western Andes, s*	(8000 £5 fy. pd.) 3 10 0		10 0 5 0 0Dec. 1872 3 7 0 1 9Jan. 1874	3200 F	New South Merllyn, I, Flint*	11/4 1 11/4	6 Mersey Steel and Iron Co. [L.] 5 0 0 par 1 5 Mold Argoed Colliery Co. [L.] 5 0 0 par 1 10 Monkland Iron and Coal Co. [L.] 10 0 0 224 2 10 Middard Iron Co. [L.] 5 0 0 6 84
res. Mines.		Paid. Last	Pr. Clos. Pr. Last Call.	3193 1	New Wh. Grylls, 7, Perranuthnoe 0 15 5. New Wheal Lovell, t, Wendron 6 6 10	5/8	10 Llay Hall Coal, tron, & Firebrick [L.] 10 0 0 p 5 Littledean Woodside Coll. Co. [L.]. 42 0 0 4 50 Llynvi, Ogmore, & Tondu Co. [L.]. 42 0 0 4 10 Lydney and Wignool Iron Ore [L.]. 7 5 0 2½ 10 Marbella Iron Ore Co. [L.]. 10 0 0 5½ 10 Merry and Cuninghame [L.]. 3 10 0 ½ 6 Merrsey Steel and Iron Co. [L.]. 5 0 0 par 1 10 Monkland Iron and Coal Co. [L.]. 10 0 0 2½ 10 Midland Iron Co. [L.]. 5 0 0 par 1 10 Monyady Iron Ore [L.]. 5 0 0 par 1 10 Monty-Glo and Blaina (8 p. c. pref.) 100 0 0 52 5 10 Native Iron Ore [L.]. 10 0 0 10 Neepsend Rolling Mills [L.]. 3 0 0 0 14 11 Neepsend Rolling Mills [L.]. 3 0 0 0 14 11 Neepsend Rolling Mills [L.]. 3 0 0 0 14 11 Neepsend Rolling Mills [L.]. 3 0 0 8 0 ½
200 Anglo-Australian, 6 200 Australian United, 200 Bellavista, s, Peru*	g, Victoria*†*(£10 shares)	2 10 0 3	% 1872 % 18 18 Fully pd. Fully pd. 5 514 Fully pd.	25000 N 5610 N 2000 N	North Laxey* 2 0 0. North Wheal Crofty, c, Illogant 4 1 9. North Wheal Towan, t. c. Illogan 1 19 6.	3s 2s. 3s.	10 Neepsend Rolling Mills [L.]
000 Braganza, g, Brazil 000 Camp Floyd, s, Uto 000 Cesena Sulphur Co	l*† ah* mpany, Romanga, Italy*	0 15 0 — 10 0 0 —	Oct. 1870 Fully pd. Fully pd.	10000 M 1000 M 12000 M	Torth Pool, c, Illogan* (Reserve 2500) 2 0 0. Torth Rosewarne, c, Gwinear 6 12 6. Torth Tankerville, l, Salop* 1 0 0.	13/4 2	10 No. of Ireland Fron Company (L.) 3 0 0 2 10 Northmetal Fron Co. (L.) 6 0 0 14 35 Palmer's Shipbuilding and Iron (L.) 25 0 0 6
Chontales, g, s, Nic Clifton, s, Colorado Clifton, s, Colorado Crescent, g, Pluma Colorado Chiaba a Minos C	, s.*! (15 per cent. Preferenc g, Victoria* g, Victoria* (:210 shares) alifornia hah* mpany, Romanga, Italy* saragua* (and 12,542 of 21 1 of County, California* leraes, Brazil* etown, Col.	5 0 0 1 10 0 0 —	34 1 Fully pd. Feb. 1872 Fully pd. June 1872	5936 N 12000 C	1 0 0.	i ₁ / ₁ 1 ² 1/ ₃	35 Palmer's Shipbuilding and Iron [L.] 25 0 0 6 100 Parkgate Iron Co. [L.] 65 0 0 25 22 20 Patent Shaft and Axletree [L.] 10 0 0 8 20 Pelsail Coal and Iron [L.] 15 0 0 4 50 Phenrix Bessemero Co. [L.] 30 0 0 1
500 East Sheboygan Pr 500 Excelsior Hydrauli	reference* (40,000 ordinary sl ic Gold Washing Co., Califor	hares) 2 0 0 —	Fully pd Dec. 1871	24000 H 256 H 1621 H	tew Wh. Seton, c, Camborne 36 19 5 corth Busy United, t, c, Kenwyn 2 8 0 0 0 corth Laxcy* 2 0 0 0 0 corth Laxcy* 2 0 0 0 0 corth Charlet 19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	¾ ¼ ¾	1 Port Gaveron Iron
2000 Exchequer, g, s, Ca 2000 Frontino and Boliv 2000 General Brazilian,	alifornia*	1 0 0 2 0 0 1 0 0	1/2Fully pdFully pdFully pdFully pdFully pd. Fully pd.	12000 H 15000 H 12000 H	Yenneriey, l, Shropshire* 2 0 0. Yenrhyn, l, Carnarvonshire* 2 0 0. Yenryn-Henblas, l, North Wales* 1 0 0. Yenryn-Henblas, l, North Wales* 1 0 0.		50 Shotts Iron Co. [L.]
000 Holcombe Valley, 000 Hornachos,* s.l., (1	g,* California	1 0 0 1 7 0 0 –	¾ 1 July 1873 Jan. 1874 April 1873	25000 H 3000 H 12000 H	Perran Consols, t , Perran	1½ ½ i ½ ¾ ½	50 Silkstone & Dodworth Cl. & Iron[L.] 17 0 0 4 22 5 Silkstone Fall Colliery Co. [L.] 4 0 0 20 Skerne Ironworks [L.]
000 Imperial Brazilian 000 I. X. L., g, s, Calif 000 Javali, g, Nicaragu	Collieries, Brazil* ornia*	5 0 0 5 0 0 2 0 0 3	Fully pdFully pdFully pdFully pd.	2000 H 1000 H 2000 H	colbreen, t, St. Agnes 6 10 0. colhigey Moor, t, Wendron 3 10 0. rideaux Wood, t, Llanivery 5 0 0.	= =	100 Staveley Iron and Coal Co. [L.]
000 Kansas, g, Colorad 000 Lanestosa, l, z, Vi 000 London and Califo	iscaya, Spain (£2 shares) ornia, g*†	1 10 0 =	Fully pd. Jan. 1874 Fully pd. 4 ½ ¼Fully pd.	12800 H 12000 H 15000 H	thydtalog, *-l, Cardiganshire 1 0 0. clockhope Valley, l, Durham* 4 0 0. closewall Hill and Ransom t 2 2 2.	1½ ½ ½ 34 ½ ¼	20 South Cleveland Ironworks [L.]
Malaga, l, Spain* Malaga, l, Spain* Malpaso, g, Colomi Menzenberg, c, Ho	bia*	10 0 0 3	% Fully pd Fully pd.	6000 F 3000 F 6123 B	to sewarne United, c , t , G winear	- 36 ··· 36 96 - 436 336 4	1 United Bituminous Collieries [L.] 10 0 0 24 43 10 Vancouver Coal [L.] 6 0 0 24 3 100 Vickers, Sons. and Co. [L.] 100 0 0 35 48
Montague & Waver Monte Loreto, g, c, New Pacific, g, s, 1	rley Gold Quartz Crushing Co. , Italy* 	5 0 0 0 7 6 5	Allotment Fully pd Jan. 1874	512 S 6000 S	outh Devon, f-c., Tavistock	% %	United Bullminous Conferies L.
New Quebrada, c. 1000 New Rosario, s, Me 1000 New Zealand Kept	venezuela*exico* exico*anga, g, Coromandel*	5 00 1 5 00 1	35% 37% Fully pd. Fully pd. Fully pd. Fully pd.	12000 S 12000 S 12000 S	Venlimmon, t, Llanidloes	= ::: 1½1½ 1½	5 West Mostyn Coal and Iron Co. [L.] 2 0 0 ½ 5 West Bwansea Colliery Co. [L.] 3 0 0 10 Whitehaven Iron Co. [L.] 10 0 0 100 Wigan and Whiston Coal Co. [L.] 70 0 0 100 Wigan Coal and Iron Co. [L.] 75 0 0
000 North American, g 000 Panulcillo, c, Chili 000 Pestarena United	allfornia* inia, g, New Granada*i. g* g* g* Georgetown, Col. g,* California. £10 shares) mia* io* collieries, Brazil* ornia* ia* io* iscaya, Spain (£2 shares) mia* foo* iscaya, Spain (£2 shares) mia, g* bia* (65000 issued) bia* cley Gold Quartz Crushing Co. Italy* Nevada* Venezuela* exico* anga, g, Coromandel* g, Italy*† g, Italy*†. (400000 issued)	4 0 0 25 3 0 0 3	Fully pd	12000 8 12000 8 18000 8	outh Phœnix, t, c, Linkinhorne	2 1½ 2 ½ %	MISCELLANEOUS
2000 Rica, g, Colombia* 2000 Rio Tinto,* c, Huc 2000 Rossa Grande, g, I	g, Italy*1* ' (40000 issued) elva, Spain Brazil* (£1 shares) d, z, Nevada* g and Uta*† j;		5 ½ ¾ Fully pd. 4 34 ¾ Fully pd. 4 6¼ 6¼ Jan. 1874 4 35 ½ July 1872	6000 S 6000 S 12000 S	outh Roskear, t, c, Camborne	76 5/8 7/8	10 Anglo-Mexican Mint 10 0 0 10
2000 Ruby Consolidated 2000 Russia, c, Orenbur 2000 San Pedro, c, Chil	g and Uta*†	10 0 0 10 0 0 31 2 0 0 13	3 3¼ Fully pd. 4 1 1½ Fully pd. 4 1 1½ Fully pd.	937 8 496 8 6000 8	outh Wheal Crofty, c, Illogan 35 0 10 outh Wh. Frances, c, Illogan 35 0 10 outh Wh. Frances, c, Illogan 35 3 9	27 14 16 9 11 13	25 Copper Miners of Eng. (7 p. c. pref.) 25 0 0 1 dis. 5 Diamond Rock Boring 3 0 0 4 dis. 10 Huntingdon Copper and Sul. Co. 8 0 0 3½ 2 16 Silber Light (ord. sh.) 10 0 0 33½ 2 10 Tharsis Sulphur and Copper Co. 10 0 0 33½ 34
5000 Saturn, s, Utah* 5000 Silver Plume, s, Co 500 Snowdrift, s, Color	olorado* rado*	5 00 1 00 2 00	Fully pdFully pdFully pdFully pdFully pd.	4000 S 14000 S 62000 S	t. Agnes Consols, **	47/845/8 47/8 2 13/4 2	b, blende; cl, coal; c, copper; g, gold; l, lead; s, silver; sl, s-d, silver-lead; l, tin; z, zinc. * Limited Liability Companies: 1 quoted on the Stock Exclusion. L have paid dividends.
200 St. John del Rey, 2000 Star of Nevada, s* 2000 Tecoma, s, Utah*	Brazil*† (12000 issued)		190 200Oct. 1872 Fully pd.	940 8 6000 8	outh Roman Gravels, i, Salop* 1 10 0. outh Roskear, i, c, Camborne 6 0 0. outh Roskear, i, c, Camborne 6 0 0. outh Van, i, Montgomeryshire 1 0 0. outh Van, i, Montgomeryshire 1 0 0. outh Ward, i, Beerferis 3 0 0. outh Wheal Crofty, c, Illogan 35 0 10 outh Wheal Crofty, c, Illogan 35 0 10 outh Wheal Ritty, f. St. Agnes 0 5 0. t. Agnes Consols, i, St. Agnes 0 5 0. t. Bluzey t.* (£2 10s. shares) 2 0 0. t. Bluzey t.* (£2 10s. shares) 2 0 0. t. Deunis Consols, t, St. Dennis 1 0 0. t. Deunis Consols, t, St. Dennis 1 0 0. t. Lawence, Amal. i, Flintshire* 2 0 0. cuccess, &c., Derb. (12,000). called) 1 0 0. amar Consols, s, Liliton, Devon 1 0 0. amar Valley, st, Beeralston 1 10 0. cesdale, i, Durham 0 6 0. eeggu Valley, i, bar., Bridfeel 1 0 0.	41/4 4 41/4	
	. Mexico*t?		2 21/4 May 1868	12000 7	amar Consols, s-l, Lifton, Devon 1 0 0	11/ 1 11/4	London: Printed by Richard Middleton, and publish HENRY English (the proprietors), at their office, 29, F STREET, E.C., where all communications are requested addressed.—March 14, 1874

100 Wigan and Whiston Coal Co. [L.] 100 Wigan Coal and Iron Co. [L.]	70 75	0	0	20 25
MISCELLANEO 10 Anglo-Mexican Mint	10	0 0	0 0 0	18 dis. % 3% 2%
10 Silber Light (ord. sh.) 10 Tharsis Sulphur and Copper Co	10	0	0	33% 34%